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The
CHEMIST AND DRUGGIST
for RETAILER - WHOLESALER - MANUFACTURER

Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

No. 3161
VOL. CXXXIII

SEPTEMBER 7, 1940

Annual Subscription (with
Diary) 25/- Single Copies 9d.

TORCH BRAND MALT & OIL

TORCH BRAND MALT & COD LIVER OIL

Put this Attractive Cut-out in your Window!

Keeps them Fit throughout the Winter

Manufactured & Guaranteed by **ALLEN & HANBURYS LTD**

ALLEN & HANBURYS LTD · LONDON · E. 2

Telephone: BISHOPSGATE 3201 (12 lines) Telegrams: GREENBURYS BETH LONDON

Sell
Euthymol
A Profitable Commodity

OPEN
Euthymol
TOOTH PASTE

A
SCIENTIFIC
TOILET
PREPARATION
MADE IN ENGLAND

EUTHYMOL
TOOTH PASTE

PARKE.
DAVIS
& CO.
50, BEAK ST.,
LONDON
W.1.

GRAND PRIX (Highest)

A
SCIENTIFIC
TOILET
PREPARATION

EUTHYMOL
TOOTH PASTE

PARKE.
DAVIS
& CO.
LONDON.

**SEND
FOR
TERMS**

Show 'Elasto'—It sells on Sight!

It's advertised as a Chemists' Line



ONE SHILLING & THREEPENCE PROFIT ON EVERY SALE

'ELASTO' Advertising is Nation-wide and Consistent. An ever-increasing demand for this product is being created at your very door; a slight effort on your part will bring this new and profitable business to your counter. A showcard or a few 'Elasto' cartons displayed in your window will bring most gratifying results. You can recommend 'Elasto' with confidence for: Varicose Veins, Bad Legs, Phlebitis, Piles, Hardened Arteries, Heart Troubles, Rheumatism, Bad Circulation, etc. A tablet Remedy, easy to handle and reliable.



Retail Price 5/- per pkt. Wholesale 45/- per doz.

P.A.T.A.

SHOW MATERIAL GLADLY SENT FREE ON REQUEST

The NEW ERA TREATMENT CO. LTD.

DEPT. C.

CECIL HOUSE, HOLBORN VIADUCT, LONDON, E.C.1

Gone with the Wind

TWO months ago we inserted an advertisement in the "Chemist & Druggist" stating we could promise prompt, full deliveries of Wisdom Toothbrushes. This advertisement was made in good faith and together with our National press advertising it resulted in a very largely increased demand for Wisdom Toothbrushes. Stocks have positively "gone with the wind."

We appreciate the co-operation which Chemists are giving us on this wonderful new brush and as the demand is now equal to our production, we hasten to explain that we are taking all steps possible to increase available supplies and to take care of raw material difficulties. For the moment you may have to wait a few days for supplies of Wisdom Toothbrushes. This is not your Wholesaler's

fault. Please endeavour to anticipate your requirements a little. If you wait till out of stock you may lose sales and profit.

IMPORTANT

Real Profit-making Terms on Wisdom Toothbrush

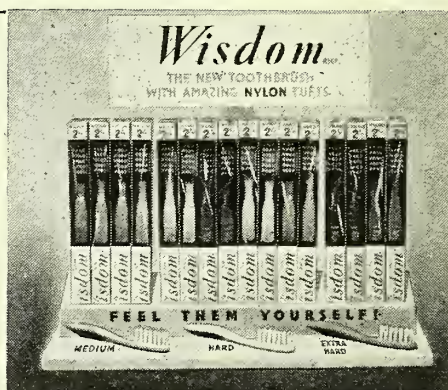
RETAIL PRICE 2/- P.A.T.A. — TO YOU 14/6 A DOZEN

Although Nylon costs much more than best bristles, we give you these generous terms, as well as supporting Wisdom with the boldest toothbrush campaign yet carried out in Britain. Remember that P.A.T.A. means fair trading — you will NOT find Wisdom toothbrushes in the cut-price shops. Stock up with the Wisdom Toothbrush now — you are bound to get quick sales, as American experience with a Nylon-tufted brush proves.

**FREE WITH
INTRODUCTORY
ORDER FOR 6 DOZEN —
A BEAUTIFUL DISPLAY
DEMONSTRATOR**

**Only 200
more available**

Please do not put this showstand in your window. It will sell far more Wisdom brushes if you keep it on your counter.



Wisdom

REGD.

THE TOOTHBRUSH WITH NYLON TUFTS

MADE BY ADDIS. ESTABLISHED 1780 — MAKERS OF THE FIRST TOOTHBRUSH

An Announcement

There is

NO RESTRICTION

under the Limitation of Supplies (Miscellaneous) Order, 1940

on the SALE of

KOLYNOS

(REGD).

DENTURE FIXATIVE



THEREFORE we shall be glad to receive details of your requirements on the accompanying order form.

When completing the order we suggest that you examine your stocks in the *K.B.A. group, all of which products are available on the usual generous Window Display terms as under:—

£10 Parcel	...	15% discount
£5	„	12½% „
£3	„	10% „

* K.B.A. GROUP — KOLYNOS, BiSoDoL and ANADIN Preparations.

This attractive Counter Display Stand will be included with all orders for not less than ½ dozen 1/3d. tins.

To KOLYNOS (SALES) LTD., 12 CHENIES STREET, LONDON, W.C.1.

Please supply on best terms:—

KOLYNOS Preparations

.....Doz.	1/9	Kolynos Dental Cream
.....	1/-	„ „ „
.....	6d.	„ „ „
.....	1/-	„ Denture Powder
.....	6d.	„ „ „
.....	3/3	„ „ Fixative
.....	1/3	„ „ „
.....	1/9	„ Liquid
.....	6d.	„ „ „
.....	2/-	„ Shaving Cream
.....	1/3	„ „ „

' BiSoDoL '

.....Doz.	1/3	' BiSoDoL ' Powder
.....	3/-	„ „
.....	4/9	„ „
.....	1/-	„ Tablets
.....	2/6	„ „ (bottles)
.....	5/-	„ „ „

' ANADIN '

.....Doz.	1/3	' Anadin ' Tablets
.....	2/6	„ „ (bottles)
.....	4/3	„ „ „

NAME.....

ADDRESS.....

Please indicate if you would like Display Material for :

KOLYNOS.....

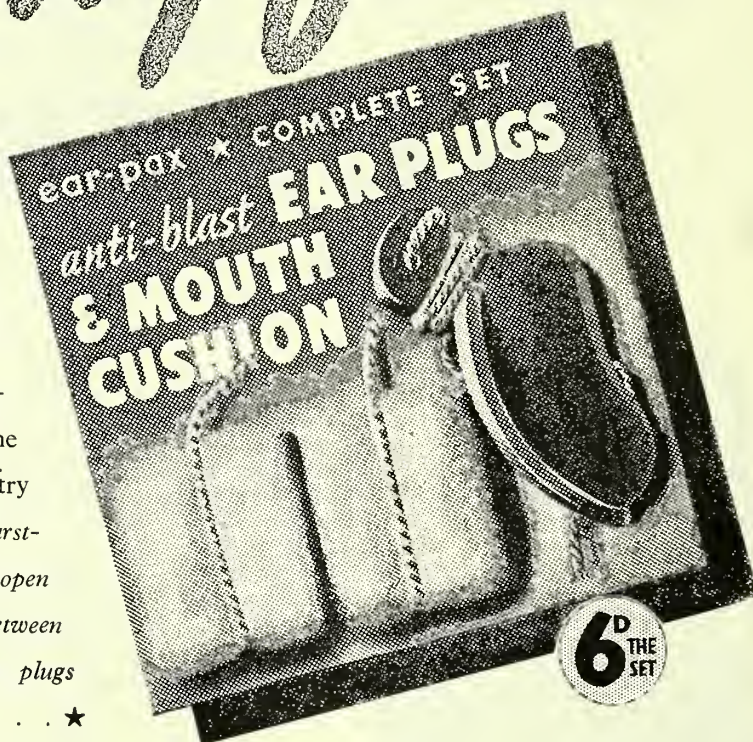
BiSoDoL

ANADIN.....

ARE YOU SHARING THESE QUICK PROFITS?

Selling fast!

Everybody needs Earpax. The demand is immediate and ready made. It covers every man, woman and child in your area. The Earpax set—earplugs and mouth cushion—has been produced to conform to the official recommendations of the Ministry of Home Security: *"If bombs are bursting near it is useful to keep the mouth open by gripping a piece of wood or rubber between the teeth and to put loosely packed plugs of cotton wool in the ears"* ★



Earpax plugs made from long fibre cotton wool firmly stitched to a cord are easily inserted and withdrawn and cannot leave shreds in the ear. The mouth cushion, specially shaped for firm grip, is highly effective in deadening shock. The set complete at its popular price of sixpence offers a trade margin of 1/6d on every dozen

★ *"Your Home as an Air Raid Shelter"* p. 24.

and a follow-up profit of 2/- on every dozen sets of replacement plugs.

The illustration shows a set of Earpax ear plugs and mouth cushion reproduced actual size. The set retails at sixpence and the trade price per dozen packets is **4/6d**. Replacement ear plugs are sold in sets of 8 at sixpence the set; trade price per dozen packets **4/-**.

anti-blast
EAR PLUGS

ear



pax & MOUTH
CUSHION

Obtainable from **SPLENDOR LIMITED**, Beastmarket Hill, Nottingham. (Distributors for Tampax Ltd., Northolt, Middlesex).
(New accounts please forward two trade references and name of wholesaler).

AMPLE SUPPLIES NOW AVAILABLE!

INDEX TO ADVERTISERS

Addis Brush Works	2	Burgoyne, Burbidges & Co., Ltd.	i	Fink, F., & Co.	vii
Aerograph Co., Ltd.	16	Burrough, James, Ltd. Leader Page			
Allen & Hanburys, Ltd. Front Cover		Burroughs Wellcome & Co.	15	Gardiner & Co. (The Scotch House), Ltd.	10
Aspro, Ltd.	v			Gibson, Robert, & Sons, Ltd.	11
		Chemical Workers' Union Col. Supp.		Graesser, N. H.	ii
		Cox, Arthur H., & Co., Ltd. Cover iv		Graesser Salicylates, Ltd.	ii
Battles, Ltd.	12	Creban Manfg. Co. Leader Page			
Beatson, Clark & Co., Ltd.	14	Crown Capsule Co.	11	Hampshire, F. W., & Co., Ltd.	9
Beechams Pills, Ltd.	viii	Cussons, Sons & Co., Ltd. Cover iii		Harwoods Laboratories, Ltd. Leader Page	
Bell, John, Hills & Lucas, Ltd. Leader Page				Hough, Hoseason & Co., Ltd.	11
Benger's Food, Ltd.	vi	Daniel, Richard, & Son, Ltd.	11		
Blackwell, Hayes & Co., Ltd.	iv	Duncan, Flockhart & Co.	ii	Imperial Patent Wadding Co., Ltd. Leader Page	
Buckley Bowker Tablet Co., Ltd.	iv			International Laboratories, Ltd.	16
Burge, Warren & Ridgley, Ltd.	12	Ebe, Ltd.	12		

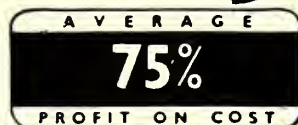
(continued overleaf)

Vigorous National Advertising for Meritor Toothbrushes in September

● FREQUENT APPEARANCES IN THE FOLLOWING POWERFUL TESTED MEDIA:—

- RADIO TIMES
- PUNCH
- DAILY EXPRESS
- WIFE & HOME
- GOOD HOUSEKEEPING
- WOMAN & BEAUTY
- DAILY MIRROR
- HOUSEWIFE

Your appearances too in "Picture Post"!



● MERITOR TOOTHBRUSHES FOR HANDSOME YEAR ROUND PROFIT!

S. MAW, SON & SONS, LTD., ALDERSGATE HOUSE, NEW BARNET, HERTS.

INDEX—contd.

Jeffreys, Miller & Co., Ltd.	11	Optrex, Ltd.	11	Singha, The Dr., Co., Ltd.	iv
		Oystrax, Ltd.	11	Smith, T. J., & Nephew, Ltd.	12
				Splendor, Ltd.	Leader Page
Kolynos (Sales), Ltd.	3	Parke, Davis & Co.	Cover ii	Surgical Hosiery Co., Ltd.	10
		Perken, Son & Co., Ltd.	12	Suttley & Silverlock	8
Lofthouse & Saltner, Ltd.		Potter & Clarke, Ltd.	13		
Leader Page		Prince Regent Tar Co., Ltd.	6	Thackray, Chas. F., Ltd.	vii
London College of Pharmacy				Thornton & Ross, Ltd.	8
Col. Supp.		Rendell, W. J., Ltd.	7	Tokalon, Ltd.	vii
Macleans, Ltd.	2				
Maw, S., Son & Sons, Ltd.	5	Samona, Ltd.	vii	United Rubber Products Corpora-	
		Schering, Ltd.	Leader Page	tion, The	10
Moore Medicinal Products, Ltd.	vi	Scholl Manufacturing Co., Ltd.	vii		
		Scott & Turner, Ltd.	Leader Page	Whiffen & Sons, Ltd.	iii
New Era Treatment Co., Ltd.	1	Scurr, C. A.	Col. Supp.	Wilcox, Jozeau & Co., Ltd.	
				Leader Page	
Northern Polytechnic.	vii	Siltex Sales	14	Wilson & Mansfield, Ltd.	iv

Disinfectants

to Hospitals, Public Institutions, Local Councils, &c.
REMEMBER that

BURT, BOULTON & HAYWOOD LTD. Managers to
the **PRINCE REGENT TAR COMPANY, LTD.**
give you special terms.

Carbolic Disinfecting Fluids containing 3% to 80% Tar Acids.

White Disinfecting Fluids—miscible in salt, fresh or brackish water, Co-efficients 10/12, 18/20, 20/22, 24/26.

Lysol B.P. Quality. Pine Disinfecting Fluids.

Pink Carbolic Disinfecting Powders containing 5% to 20% Tar Acids.

Carbolic Sheep Dips, approved by the Ministry of Agriculture under the Sheep Scab order.

Tar Acids and Rideal Walker Co-efficiency guaranteed.

Special Disinfectant Fluids approved by the Ministry of Agriculture under the "Diseases of Animals Acts." May be packed and sold by Chemists under own name.

SAMPLES AND PRICES ON APPLICATION TO

PRINCE REGENT TAR COMPANY, LTD.

(Managers: BURT, BOULTON & HAYWOOD, LTD.)

BRETENHAM HOUSE, WELLINGTON STREET, STRAND, LONDON, W.C.2

Phone: Temple Bar 5801 (5 lines)

Telegrams: "Burboul, Rand, London"

Carbolic Disinfecting Fluids, Rideal Walker Co-efficients 2 to 20
Liquid Carbolic and Cresylic Acid, Dark 95/97% and Pale 97/99%.

Sulphur Candles. Formaldehyde (Formalin) 40% Solution
Liquid Soaps.

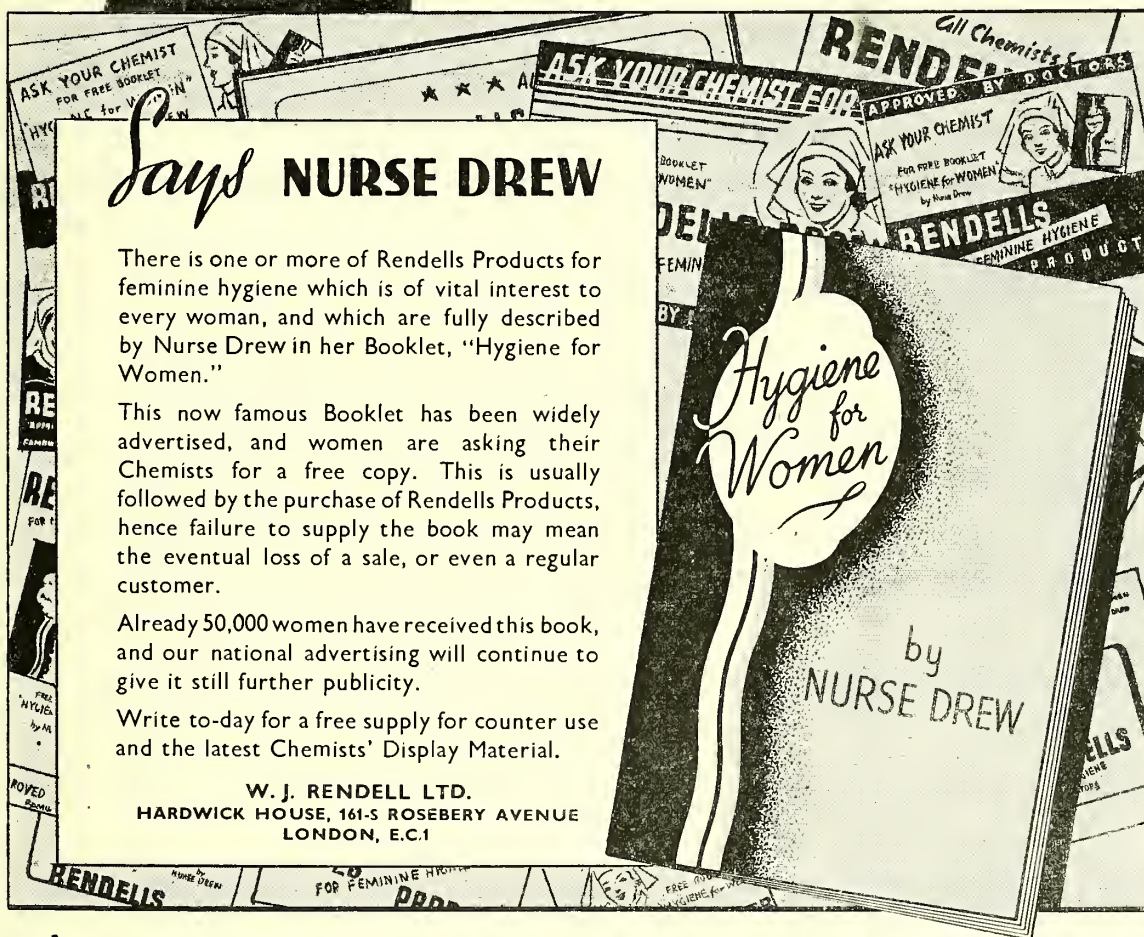
SOLUBLE Carbolic or Pine Blocks for road watering vans
Carbolic Weed Killer, etc.

May be sold by Chemists and Druggists under own name.

"**EVERY WOMAN**

IS A POTENTIAL CUSTOMER FOR **RENDELLS** PRODUCTS

FOR FEMININE HYGIENE



Says **NURSE DREW**

There is one or more of Rendell's Products for feminine hygiene which is of vital interest to every woman, and which are fully described by Nurse Drew in her Booklet, "Hygiene for Women."

This now famous Booklet has been widely advertised, and women are asking their Chemists for a free copy. This is usually followed by the purchase of Rendell's Products, hence failure to supply the book may mean the eventual loss of a sale, or even a regular customer.

Already 50,000 women have received this book, and our national advertising will continue to give it still further publicity.

Write to-day for a free supply for counter use and the latest Chemists' Display Material.

W. J. RENDELL LTD.
HARDWICK HOUSE, 161-5 ROSEBERY AVENUE
LONDON, E.C.1

WE'RE ADVERTISING THIS BOOKLET EXTENSIVELY-HAVE IT ON YOUR COUNTER

Sales increasing every month!



SANIDENT

the
biggest value
in Denture Cleansers

No other perborate denture cleanser offers the same **quantity** in relation to cost. Withal, the **quality** of Sanident is unsurpassed and rarely does a "first sale" fail to make a regular customer.

Many dentists now recommend Sanident to their patients.

There is a profit to the Chemist of 6d. on every bottle sold.

Every assistance in sales aids is given to the stockist of Sanident. Various show material is available as required.

Retail **1/3** per bottle.

Trade price **9/-** per doz.

THORNTON & ROSS LTD., LINTHWAITE, HUDDERSFIELD

TR 85

Printers for Chemists

SPECIALISTS IN LABELS printed to order
for dispensing and for your own packed lines

STOCK bottle labels (black on yellow) in books or single labels—your own wording to order. Poison Registers. D.D. Act Registers, Prescription Books, National Health Bills and Showcards. Skillets—plain tuck-in ends, 2, 4, 8, 16 oz., or white paper wrapped, 1, 2, 4, 8, 16 oz. We hold a large and varied stock of labels for your own packed lines. Specimens on receipt of postcard.

**OUR SUTTLOCK
D.D.A. REGISTER**
conforms with all the
requirements of the
present Regulations

SUTTLEY & SILVERLOCK

ANDOVER

Branch of
Kelly's Directories Ltd.

HANTS

London-Office: 2 Arundel Street, Strand, W.C.2

Temple Bar 3464 (9 lines)

**A Modern Series of Stock
Labels in various colour
schemes for Packed
Lined Goods.
Write for List of
Wording and Samples.**

5 GOOD REASONS WHY YOU SHOULD SELL

Jeannette

POMEROY

Beauty Preparations

1. They are one of the most firmly established lines of beauty preparations in the country. 2. They satisfy every beauty need of the smart woman. 3. Their quality makes regular customers of all women who buy them. 4. Particular care is being taken to ensure the continuance of regular supplies. 5. Your customers can obtain free and expert beauty advice at the Jeannette Pomeroy Showroom, 29, Old Bond Street, W.1.



The range of Jeannette Pomeroy Preparations is a very large one. Here are seven of the most popular lines.

		Retail each		Wholesale Per doz.	
SKIN FOOD	2/3	4/6	6/6	20/3	40/6 58/6
Trial tubes and jars	9d.			6/9	
'DATHOS' NIGHT CREAM					
for very dry skins		3/6	7/-		31/6 63/-
CLEANSING CREAM		2/-	5/6		18/- 49/6
Trial jars	9d.			6/9	
VANISHING DAY CREAM		2/6	5/-		22/6 45/-
Trial tubes and jars	9d.			6/9	
BEAUTY MILK	2/-	3/6	6/6	18/-	31/6 58/6
ASTRINGENT LOTION	2/9	5/-	9/-	24/9	45/- 81/-
FACE POWDER	1/9	2/6	4/6	15/9	22/6 40/6

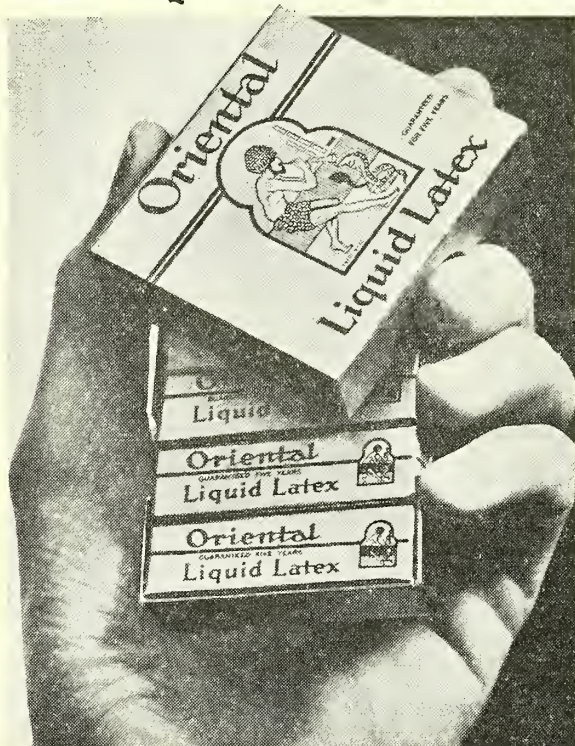
JEANNETTE POMEROY BEAUTY PREPARATIONS

Send enquiries and orders to F. W. Hampshire & Co., Ltd., Sunnyside Works, Derby.

ORIENTAL LIQUID LATEX

TRIPLE TESTED ★ GUARANTEED

AGEING QUALITY — FIVE YEARS



MADE IN ENGLAND ★

IMMEDIATE

DELIVERIES

FROM STOCK

ORDER FROM

YOUR USUAL WHOLESALER

ORIENTAL

BRAND

36/- PER GROSS
RETAIL 2/6 BOX 3
Packed 4 boxes to outer
12 outers to 1 gross

ROBERTA

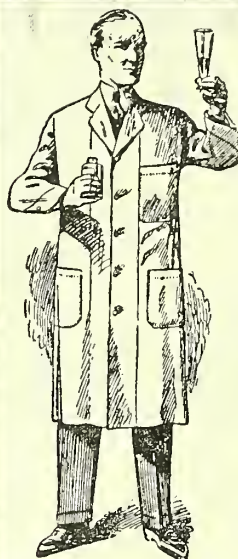
BRAND

27/- per gross
Retail 1/6 Packet 3
Showcard available
on request

THE UNITED RUBBER
PRODUCTS CORPORATION

22 Fletcher Gate, Nottingham
★
7c Lower Belgrave Street
London S.W.1

GARDINERS for OVERALLS



HIGH GRADE OVERALLS

LONG COATS

White, Khaki or Grey
9/6, 11/6
Super Quality, specially shrunk,
13/9

LONG COATS

White, Khaki or Grey, hard
wearing
SPECIAL OFFER 8/11

SHOP JACKETS

Super White Drill
5/11, 6/11, 9/6

ALPACA JACKETS

(for the warm weather)
A large selection at all prices

We hold a large and varied stock
of every kind of protective
clothing. Special attention to
Post Orders. Cash refunded if
not approved. Postage paid
on orders over £1.

Write or phone BISHOPSGATE
6751 for illustrated Price List

GARDINER & CO. (THE SCOTCH HOUSE) LTD.
1, 3 & 5 COMMERCIAL ROAD, LONDON, E.1
OPPOSITE THE NEW ALDGATE EAST STATION

“SURCO”

RELIABLE

ELASTIC HOSIERY

SEAMED & SEAMLESS

For special garments to
measure we maintain a 24
hour service.

:: BODY BELTS ::
TRUSSES :: SUNDRIES

Permit us to quote you

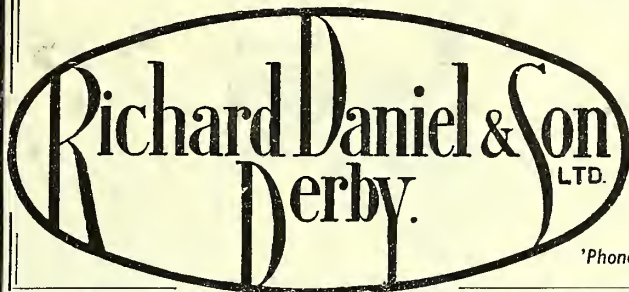
SURGICAL HOSIERY CO. LTD.

Russell Street :: NOTTINGHAM

Telephone No. 75903.

Telegrams: SURGICAL NOTTM.

MANUFACTURERS OF

**TABLETS
& PILLS**

The smallest Tablet we make weighs 1/20th grain, and the largest 250 grains. If your tablet comes within these limits—may we quote you?

'Phone: DERBY 4266/7/8

'Grams: "DANIA" DERBY



MILLAMALT

The TONIC
MALT FOOD

Sole Manufacturers,
JEFFREYS, MILLER & Co. Ltd.

With Guaranteed Complement of Vitamins A, B, C & D.

Leyland Mills, WIGAN. London Dept. 19 Brookside Road, N. 19

OPTREX
BRAND
EYE LOTION

and
FAMEL
BRAND
SYRUP

ARE  **LINES**
THOUSANDS OF POUNDS WORTH OF NATIONAL
ADVERTISING HAVE MADE THEM SURE SELLING LINES

Write for Price List: Optrex Ltd., Wadsworth Rd., Perivale, Middlesex

QUALITY

**CAPSULE MAKERS TO THE TRADE . . .**

Many years of specialised experience are at your disposal. Superlative products at keenly competitive prices. Ask us to quote for your next requirements. Own or standard formulæ compounded.

CROWN CAPSULE CO. CAMPBELL ST., HELENSBURGH,
SCOTLAND. 'Phone: Helensburgh 356
HOZONTENE TONIC FOOD

The 'different' tonic food • predigested milk • dextrinised malted wheat • fruit sugars and other energy-creating foods. SEND FOR FREE SAMPLE

HOUGH, HOSEASON & CO. LTD.
Sun Buildings, MANCHESTER, 3

OYSTRAX
BRAND
TONIC
ADVERTISING NEVER STOPSMembers
P.A.T.A. & C.F.

Retail Prices

1/9 ♦ 3/6 ♦ 8/6

for further information
Write: Oystrex Limited,
20 Took's Ct., Cursitor
St., London, E.C.4.A  LINE AT PRE-WAR PRICES

The **NEW "MECCA" PASTILLE** is
now on offer for **OCTOBER** delivery

2 oz. tins in $\frac{1}{2}$ dozen display outers

8s. DOZEN TO SELL at 1s. PER TIN

ROBERT GIBSON & SONS, LTD.

Manchester and London

THE
"MATER"
CLINICAL REGD.
The position of the Mercury column is at once perfectly plain. Red markings above 99.4.

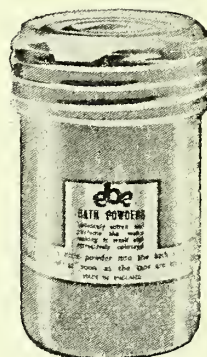
**ALL TYPES OF
CLINICAL
AND OTHER
THERMOMETERS**

**PERKEN, SON
& CO. LTD.**
(ESTABLISHED 1852)
Price List on Application:
**8 HATTON GARDEN,
LONDON, E.C.1**
Telephone: 0724 Holborn
Telegrams: "Optimus, Smith, London"



ebe sells on sight

The striking and original EBE packs catch every woman's eye—and tempt her purse. The excellent quality and intriguing variety of EBE Bath Products make repeat sales certain. When you stock and show EBE you can rely upon an ever-increasing turnover with a very advantageous margin of profit of 33½ per cent. on selling prices (except on sample sizes).



Bath Powder, 9d. to 60/-; Bath Flowers, 2/- to 21/-; Bath Confetti, 3/6 to 10/6; Bath Milk, 3/6 to 25/-; Bath Liqueur, 3/6 to 10/-; Bath Soap, 1/3; Toilet Soap, 1/10d.; Cosmetic Soap, 1/3.

EBE BATH PRODUCTS

Manufactured and marketed by
OPERA OMNIA LTD.
Oatine House,
Mermaid Court, London, S.E.1

**SHOULDERS TO
THE WHEEL**

There are many ways in which the individual can make his or her contribution to the war effort. But for business organizations such as ours there is only one course of action—to carry on with our job to the best of our ability. As Chemists' Sundriesmen we have had many difficulties to contend with—difficulties of supply, of raw materials, of delivery. But we have faced up to them and have continued to offer to the firms whom we are privileged to supply, a first-class standard of goods and service. If we are not already doing so we shall be very happy to co-operate with you.

BURGE, WARREN & RIDGLEY, LTD.

91-92 Saffron Hill, London, E.C.1

TELEPHONE: HOLBORN 0050
TELEGRAMS: "DRUGSUND SMITH, LONDON"
ESTABLISHED 1850

**BATTLE'S
VERMIN**

KILLER

**BATTLE'S
LIQUID
RAT**

EXTERMINATOR

IN PACKETS
5d., 9d., 1/3, 2/6, 5/-
P.A.T.A.

WHOLESALE AT
3/6, 5/6, 9/6, 18/6, 36/-
per doz.

IN BOTTLES
1/6, 2/9, 5/- P.A.T.A.

WHOLESALE AT
12/6, 22/6, 45/-
per doz.

Order some today from your wholesaler

Elastoplast
TRADE MARK BRAND

BOIL DRESSINGS

**The complete treatment
for Boils**

T. J. SMITH & NEPHEW, Ltd.

NEPTUNE ST., HULL



Dr. Thompson's *Dandelion Coffee*

for Dyspepsia

MADE ENTIRELY FROM ENGLISH
DANDELION ROOT ROASTED
AND GROUND . . .

In Enamelled Tins
P.A.T.A.

1s. 0d. size 8/- doz.

1s. 9d. „ 15/- „

3s. 0d. „ 26/- „

Malted Slippery Elm Food

for bottle fed children and invalids

THIS REMARKABLE FOOD HAS BEEN DESCRIBED
AS THE MOST NOURISHING IN THE WORLD.
IT HAS A BENEFICIAL AND SOOTHING EFFECT
IN ALL CASES OF GASTRITIS, COLITIS, ETC.

Free samples for counter distribution

HANDSOME SHOWCARDS
SUPPLIED WITH ALL
ORDERS

In Four Sizes

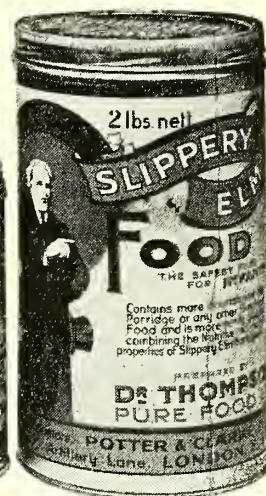
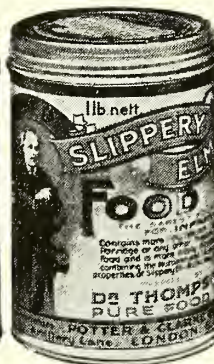
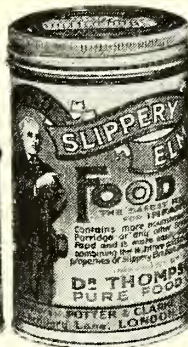
P.A.T.A.

9d. size 6/6 doz.

1s. 8d. „ 15/- „

2s. 0d. „ 1/6 each

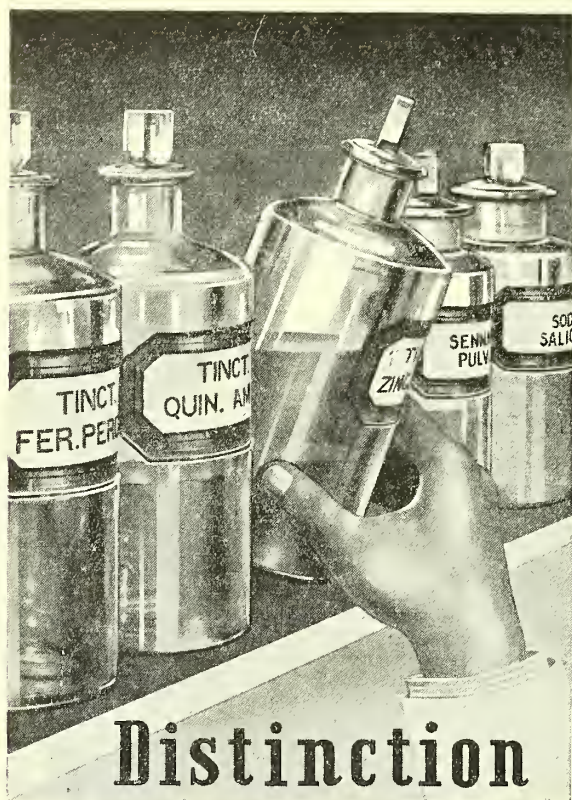
3s. 8d. „ 2/8 „



POTTER & CLARKE Ltd.

60-64 ARTILLERY LANE, LONDON, E.1
AND AT 77 DANTZIC STREET, MANCHESTER, 4

'Grams : "Horehound, Phone, London." 'Phone : B1Shopsgate 4761 (6 lines)
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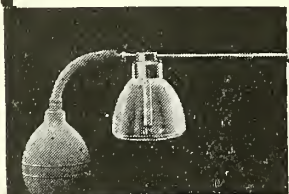
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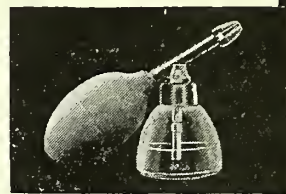
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NEWS OF THE WEEK

Food Traders to be Compelled to Show Books.—Authority has been given to the Food Price Investigation Committee to compel traders to produce their books and accounts.

Price of Invert Sugar.—The Ministry of Food announces that on September 2 the maximum wholesale price of each quality of invert sugar will be increased by 3s. 9d. per cwt. The increase is wholly accounted for by an increase in the manufacturers' price of raw sugar.

N.P.U. Proprietor Chemists' Distress Fund.—The response to this appeal has been very satisfactory. The first list of donations issued by the management committee (p. 127) shows that amounts received total £396, with promises of a further £2,490, making a grand total of £2,887. A number of the leading manufacturers and wholesalers have reported the fund in a very generous manner.

Industrial Ammonia Control.—The Minister of Supply has made the Control of Industrial Ammonia (No. 1) Order, 1940, to take effect on September 2; the Order provides for the licensing by the Ministry producers of anhydrous ammonia and of ammonia liquor containing less than 12 per cent. ammonia. No licence is required for the manufacture of nitrogenous fertilisers. Application should be made to the Ministry of Supply, Industrial Ammonia Control, 19 Berkeley Square, Bristol, 8.

Control of Molasses.—The Control of Molasses and Industrial Alcohol (No. 9) Order has been made by the Minister of Supply and put into force recently. The new Order varies the Schedule to the No. 7 Order in certain respects. First, distributors of imported molasses, whether bought in bulk or in containers, may, when selling in containers, reckon its weight as including the weight of the containers in which it is sold, and reckon the basic price on that gross weight. Secondly, the molasses may be sold in lots of less than 7 cwt. without weight without being subject to a maximum price. Thirdly, the provisions governing delivery charges are amended with a view to removing certain difficulties which have been experienced. Any enquiries should be addressed to the Ministry of Supply, Molasses and Industrial Alcohol Control, Great Burgh, Epsom, Surrey.

Poisons Rules Amended.—The Home Secretary has issued the Poisons (Amendment) (No. 2) Rules, 1940, dated August 26 under the Poisons Act, 1933. The effect of the amendment, which comes into immediate operation, is that a person procuring a written authority in the prescribed form issued within the preceding three months in England by the executive officer or secretary of the County War Agricultural Executive Committee or in Scotland by the chairman or secretary of an Agricultural Executive Committee may purchase, for the purpose of killing moles, a quantity of strychnine not exceeding four ounces. The authority is retained by the seller. A person to whom strychnine is sold for the purpose of killing moles is required not to use the strychnine for any other purpose and to take proper precautions for preventing access to the strychnine by other persons. Copies of the amendment (S.R. & O., No. 1560) may be obtained from H.M. Stationery Office, price one penny.

British Goods in German Ships.—The Board of Trade has set up a committee, the Enemy Shipping Claims Committee, to enforce claims against enemies who are the owners or charterers of ships, and/or against enemy ships; and to obtain release of cargoes in enemy ships, except British-owned cargoes in German ships lying in neutral ports. The London Chamber of Commerce will, as heretofore, continue its efforts to obtain release of British-owned cargoes in German ships. The committee has been granted a licence under the Trading with the Enemy Act, 1939, to enable it to carry out its objects on behalf of persons beneficially interested in the claims or the cargoes. It is not proposed to authorise any other person or body to enforce claims or recover cargoes, whether on their own behalf or otherwise. The members of the Committee are: Mr. C. W. Bateson (Thomas Cooper

& Co., London, solicitors); Mr. J. W. Boyle (Asiatic Petroleum and other oil companies); and Mr. Henry Morgan (chairman, Council of the London Chamber of Commerce). Copies of the Order (S.R. & O., No. 1567) may be obtained from H.M. Stationery Office. The Board of Trade has also made an Order (S.R. & O., No. 1568) requiring persons having claims against enemy ships, shipowners, or charterers (except claims for the release of British-owned cargoes in German ships in neutral ports) to report particulars to the Secretary, Enemy Shipping Claims Committee, Norman House, Strand, London, W.C.2, by Thursday, September 12. Persons not sending particulars within the prescribed period are liable to heavy penalties under the Defence Regulations. The particulars required are: (i) nature, quantity, and value of cargo, stating where and in what ship it is lying, or, if not on board ship, where and in whose possession or control it is; (ii) nature of any document evidencing ownership of or interest in any such cargo; (iii) date and amount of any payments made in respect of freight charges, stating to whom such payments were made; (iv) port of loading and port of destination; and (v) the nature and extent of the course of action that is claimed to exist in respect of any cargo or of any other claim—e.g., mortgage or bunkering.

Cultivation of Medicinal Herbs.—It has been decided by the Ministry of Health to give encouragement, under the scheme indicated below, to the further production in this country of belladonna, digitalis, henbane and stramonium. Owing to the closing of some foreign sources of supply, much interest, both professional and amateur, has recently been shown in the growing and collection in this country of all kinds of herbs. Many proposals have been advanced, ranging from suggestions for collecting wild plants by botanists, teachers, schoolchildren, etc., to arrangements for extended cultivation by existing firms, private gardeners and so forth. The various proposals and the whole needs of the situation have been discussed at the Ministry with representatives of the various interests and in consultation with the Ministry of Agriculture and Fisheries. In the result, it is felt that extended production on an organised scale may well be limited to the four herbs named above, and that the scheme should be on a commercial basis. The essence of the scheme is that the present commercial firms should extend their cultivation and drying plant. Farmers and owners of large private gardens who wish to engage in the cultivation of the herbs are recommended to operate in close association with commercial firms to ensure that the crop is properly harvested and dealt with. The Ministry of Agriculture and Fisheries will advise on the problems relating to production and method of cropping. Accordingly, farmers and private gardeners who are desirous of growing the herbs are advised to get into touch without delay with the Wholesale Drug Trade Association, 28 Gordon Square, London, W.C.1.

It is understood the scheme is intended to avoid the waste that might occur from indiscriminate collection of herbs and medicinal plants. It is hoped that under the supervision of teachers of botany and schools of pharmacy the collection and drying of wild medicinal plants such as those named, and colchicum, will be done without the risk of getting them mixed. The more important part of the scheme is to assist those farmers, gardeners and others who desire to grow the plants, to advise them as to the growing and drying, and then to help with marketing. The present growers and merchants will take the crops if of good quality and carefully dried, thus avoiding setting up new machinery. Without knowing something of the acreage and soil it is impossible to advise generally. Those who wish to help in this way should apply, giving such particulars as they can, when they will be put in touch with any trade assistance that can be given.

In the Courts.—At Clerkenwell Police Court, London, on August 21, Thomas J. Cann, a clerk, and John Clifford, chemist's assistant, were charged on remand with being concerned together in stealing from 258 Euston Road, N.W.1, on August 13, a number of boxes of pills and

patent medicines, value together £22 1s. 6d., the property of Sangers, Ltd., Euston Road. They were also charged with stealing similar goods worth £10 16s. on the following day. Benjamin Distilman, a hairdresser, was also charged on remand with receiving the property mentioned in the first charge, at 104 Hampstead Road, N.W.1, knowing the articles to have been stolen. All three men pleaded guilty and were sentenced to three months' hard labour.—William J. McKendry was at Old Street, London, Police Court on August 30, discharged under the Probation of Offenders Act on a charge of having stolen goods to the value of 10s., comprising dentifrice, tooth-paste, etc., from a van belonging to Evans Sons Lescher & Webb, Ltd., London.

IRELAND

Golf.—The Irish Chemists' Golfing Society will hold its last outing of the season at Newlands Golf Club, co. Dublin, on Sunday, September 29, when there will be an eighteen-hole stroke competition for silver cups, and an eighteen-hole bogey match for a prize presented by Kodak, Ltd.

Business Changes.—The business of Leonard's Medical Hall, Talbot Street, Dublin, has been acquired by Mr. Martin J. Murphy, L.P.S.I.—The business carried on by Mrs. M. E. Somers, M.P.S.I., Prospect Road, Glasnevin, has been taken over by Mr. J. Perry, L.P.S.I., Lindsay Road, Glasnevin.—Mr. Patrick J. Hogan, L.P.S.I., South Circular Road, Limerick, will shortly open a pharmacy at 45 Upper William Street, Limerick.

Week-end Retreat.—Under the auspices of the pharmacy branch of the St. Joseph's Young Priests' Society a week-end Retreat will be held from Saturday evening, October 5, to Monday morning, October 7, at the Retreat House, Rathfarnham Castle, Dublin. There will be places for sixty retreatants, and particulars can be obtained from Mr. M. J. O'Rourke, M.P.S.I., 69 Upper Georges' Street, Dun Laoghaire, or the promoters of the pharmacy branch of the Society.

Irish Drug Association.—Mr. P. F. McGrath (president) was in the chair at a meeting of the committee of the Irish Drug Association on August 26, when a report was received from the subcommittee that interviewed representatives of the Irish Union of Distributive Workers and Clerks as to hours of opening and closing. It was agreed that the recommendation of this conference should be put into force in September, and members of the Association in the Dublin area are warned that breaches of the agreement will have serious repercussions. An application from a firm on the approved list to supply wholesale grocers and druggists who refused to give an undertaking to supply chemists and druggists only was refused; another firm forwarded evidence to show that it had refused an order from a wholesale grocer who wished to supply mixed traders, hucksters, and the like. The letter was noted.

Pharmacists and A.R.P.—The response of pharmacists in the Dublin area to the appeal of the Council of the Pharmaceutical Society of Ireland in connexion with A.R.P. services has been most enthusiastic and generous. More than 90 per cent. of the chemists in the area have agreed to place their premises at the disposal of the A.R.P. authorities

as first-aid sub-stations, and tribute to this attitude by Dublin chemists was publicly paid recently by Sir John Lumsden (chief commissioner of the St. John's Ambulance Brigade). Conferences with the A.R.P. representatives and the subcommittee of the Society are proceeding to work out the details of how pharmacists' services may best be available. During the present month a special course of first aid for chemists will be inaugurated under the auspices of the Irish Red Cross Society and the Pharmaceutical Society of Ireland. The course will be under the direction of Surgeon Bouchier Hayes (chief medical organiser of the Red Cross Society).

SCOTLAND

Pharmacy Classes, Dundee.—Day classes in pharmacy will commence at Dundee Technical College on September 23; evening classes on September 9.

Prisoner of War.—It is understood that Captain A. Fraser McIntosh, M.P.S., who was previously reported missing (see C. & D. July 13, p. 16), is a prisoner of war.

Photographic Trade Poor.—The ruling against holidays or in favour of limited holidays has had a serious effect on sales of photographic equipment, films spools and D. and P. work in Scotland, according to a correspondent. An Edinburgh chemist suggests that a secondary reason has been the number of men now on active service, for photography has always been more a masculine than a feminine hobby. The ban on cameras in certain areas is not considered to have been much of a deterrent.

Unequal Distribution Alleged.—Complaints are common among Scottish chemists that they are unable to obtain certain brands of cosmetics in considerable demand. While wholesalers or travellers state that limitation of supplies and other official reasons prevent normal distribution, supplies of the brands concerned are on display in department and chain stores, and customers whom the retail trader has to turn away simply go to these stores to obtain all they require. The necessity for a "square deal" to thousands of small stockists is urged by Scottish chemists.

Statement on Purchase Tax.—The attitude of Scottish traders to the Purchase Tax is defined in a statement issued by the Scottish Distributive Traders' Co-ordinated Committee (of which the Scottish Pharmaceutical Federation is a member) through the secretary, who states that while the necessity for raising revenue to pursue the war is recognised, members of the Committee are of the unanimous opinion that, in view of the anomalies and difficulties that arise, the tax would not in practice effect the desired end; it would impose an additional burden upon sections of the community with limited incomes and would not impose the same sacrifice on those able to meet additional demands without great interference with their present standard of living. To a large extent the same arguments applied to traders. The tax would impose burdens and create hardships for that section of the trading community which catered for the less fortunate section of consumers.

TOPICAL REFLECTIONS

Hypnotics.—The sixth of Dr. Prescott's articles on recent developments in therapeutics (p. 114) presents in practical language much that chemists in business need to know, particularly in present conditions, on the hypnotic action of drugs in general use for that purpose. Air raids have as one consequence increased the need for sound advice in the pharmacy on the recurring topic of insomnia. Customers who show signs of psychological maladjustment should be referred to a medical practitioner without hesitation. There are, however, many others, and for them the timely advice of an experienced pharmacist will be helpful. The article referred to indicates clearly certain dangers that common prudence teaches us to avoid. One question that a pharmacist will be wise to ask himself before making any suggestion to a customer is: How many hours' sleep should be aimed at? With the possibility or probability of interrupted nights a mild dose—for example, the smallest in the Pharmacopœia—is usually to be preferred, and the taking of it can be reserved for an hour when the chance of further interruption is slight.

Later Opening Time. The decision of several Lancashire chemists to open their shops at 10 a.m., so as to give their staffs more opportunity for rest (p. 111), is a practical measure for the present emergency worth a good deal of theorising. Charles Lamb, in one of his Elia essays, derided in his characteristic style the policy of "early to bed and early to rise"; and it is recorded that when reprimanded for late arrival at his office he rejoined, "But I leave early." There is for every human being a limit to the extent to which the candle can be burnt at both ends. In the majority of pharmacies the number of customers served during the first hour or two of business is quite small, consisting chiefly of people on their way to their daily work and of neighbouring tradesmen. Not much information will accrue to the enemy when I mention

that various people with whom I come into contact find that the average air-raid night resolves itself into three sections—a period of early sleep one of waiting for possible events, and a final one of sleep till the day's duties begin. The third of these periods is likely to be shorter than most busy people desire: the Lancashire arrangement is therefore to be commended to the attention of other areas.

Great Workers in Science.—Within a few days of each other two of our oldest and most distinguished men of science, Sir Oliver Lodge and Sir Joseph Thomson, have passed away. Their discoveries in physics may broadly be described as initiating, on parallel lines, practical developments of the first importance. To the academic honours with which they were loaded they imparted fresh lustre. Strange as it may appear, Aristotle rejected the idea that distinctions should be conferred on men who had made discoveries beneficial to the city and state of Athens: his reasons for this opinion, though I have not space to indicate them, are to me unconvincing. Both Lodge and Thomson had as part of their intellectual equipment the rare gift of simplifying scientific concepts sufficiently for presentation to a general audience. I remember, as an instance, a speech by Sir Joseph Thomson at a meeting of the British Science Guild in 1919, a meeting attended by numerous friends of the Guild who did not pretend to much scientific knowledge. He was speaking on the need for extending research in every walk of life, and in illustration adduced the fact that wool, after being wrung in water, regains its former shape but cotton, in the same circumstances, does not. "The cause of this," he commented, "is not known"; and he went on to suggest latent commercial possibilities in an investigation of the subject. His and Sir Oliver Lodge's original work in electrical phenomena and atomic structure will have a permanent place in the history of science.

Xrayser

EMPIRE AND FOREIGN NEWS

American Pharmaceutical Association.—The eighty-ninth annual convention of the American Pharmaceutical Association is to be held at Detroit, Michigan, in August 1941. The local secretary is Mr. Bernard A. Bialk, 11655 Hamilton Avenue, Detroit.

Mexican Export Ban Removed.—A recent resolution of the Mexican Department of National Economy removed a prohibition against export of medicinal products, and raw materials for their manufacture, which had been in operation since 1939. There are now stated to be adequate supplies of these products in Mexico.

Australian Sulphanilamide Control.—The sale of sulphanilamides, allied drugs, and their derivatives has been brought under uniform control by the Medical Equipment Regulations promulgated under the National Security Act. Under the regulations sulphanilamides, allied drugs and their derivatives may not be sold by retail except on the written prescription or order of a registered medical practitioner, veterinary surgeon or dentist.

Japanese Sardine-oil Glycerin.—Glycerin is produced in Japan from hardened sardine oil. The annual output of hardened oil in the Japanese Empire, about 90,000 tons, or 48 per cent., is produced in Chosen province. Sixty-two per cent. of the total hardened oil production in Japan is stated to be used for the manufacture of soap, 17 per cent. for stearin, olein, and paraffin wax, and 21 per cent. for manufacturing glycerin. Chosen is reported to be capable of producing approximately 15,000 tons of glycerin yearly, and Japan can now meet its whole demand for glycerin from domestic output.

Help for Scientific Research in Canada.—The Canadian Government has announced the appointment of a committee of nine members to administer funds presented by patriotic citizens for assisting technical projects and scientific investigations now being undertaken or proposed by the National Research Council with the object of increasing the efficiency of the Canadian war effort. The chairman is Dean C. J. Mackenzie (acting president of the National Council), and the members include Sir Frederick Banting, Mr. J. S. Duncan (Deputy Minister for Air), Professor Maas (head of the Physics Department of McGill University), and Colonel Allen Magee (executive assistant to the Minister of National Defence). Funds given or promised amount to nearly \$1,000,000 (about £225,000).

Deficient Quinine Tablets, South Africa.—In the issue of the *C. & D.*, June 15, 1940 (p. 426), under the title of "Tablets for South African Defence Department Found Deficient," appeared a report of a prosecution in respect of a supply of quinine tablets that were found to be deficient in quantity and quality. The name of the supplying firm, which was fined £35, was not disclosed in the report of the case received from the usual source. LENNON, LTD., 12-14 Lafone Street, Tower Bridge, London, S.E.1, manufacturing chemists, who have extensive business connexions in South Africa, wish to make it clear that they were not involved in the proceedings in any way. We have pleasure in publishing Messrs. Lennon's disclaimer in order to dispel any possible suspicion being attached to them.

Australian Sales Tax.—Following the lead given by the Federal Prices Commissioner that the Federal Sales Tax could be legitimately passed on to customers, most of the large retail organisations agreed in principle that the tax was a consumer tax which should be added to the selling price of the goods affected.

Representative meetings were held in Sydney and Melbourne, and, arising out of these, a special committee was appointed representing Victorian manufacturers, wholesalers and retail traders. The meeting was organised by a meeting of manufacturers and retailers who decided to seek official approval of the following schedule of modified prices:—

1. Articles sold at up to 5½d.—Tax to be absorbed by the retailer.
2. Articles priced for sale at from:—

6d. to 1s. 3d. (inc.)	..	..	..	Add ½d. tax
1s. 4d. to 2s. 11d.	..	..	..	Add 1d. tax
3s. to 4s. 3d.	..	..	..	Add 1½d. tax
4s. 4d. to 7s.	..	..	..	Add 2d. tax
7s. 1d. to 10s. 3d.	..	..	..	Add 3d. tax
10s. 4d. to 14s.	..	..	..	Add 4d. tax

Soap Imports to Spain and Portugal Suspended.—The Portuguese Government has suspended until December 31, 1940, the importation of perfumery, hair lotions, dentifrices and soaps.—Importation into Spain of pharmaceutical preparations, either ready to be sold to the public or prepared for packing within the country without further processing has been prohibited. Exceptions may be specially authorised by the Ministry of the Interior, upon recommendation of the General Bureau of Health, when therapeutic importance, impossibility of manufacturing the product in Spain, or existing health conditions make it advisable to purchase abroad. When registration of a foreign product has been specially permitted it may be imported and sold for a period of three years. Thereafter the owners must arrange for production and sale in Spain by Spanish-controlled organisations.

MARRIAGES

Notices for this column must be authenticated

Golden Wedding.—MILLARD—SCOREY.—At Upper Norwood, London, S.W., by the father of the bride, on September 1, 1890, Edgar James Millard, Ph.C., younger son of the late J. H. Millard, B.A., to Charlotte Mary, only daughter of the Rev. F. G. Scorey. Present address: "Westways," Spring Garden, Alcombe, Minehead, Somerset.

JOBSON—FORSTER.—At St. Thomas's Church, Stanley, Crook, co. Durham, John Readman Jobson, M.P.S., 29 Waterlow Road, Highgate Hill, London, N.19, to Eleanor Forster.

MUIR—GILMOUR.—At Queen Anne Street Church, Dunfermline, on August 28, John Muir-Long Muir, C.A., Dunfermline, to Constance Jeanie, younger daughter of Mr. John Gilmour, Ph.C., Chalmers Street, Dunfermline.

NANGLE—O'BYRNE.—At Rathmines, Dublin, on August 21, H. J. Nangle, Kilmainham, Dublin, to Eileen O'Byrne, M.P.S.I., 137 Rathmines Road, Dublin.

SHADFORTH—MOON.—At Ickenham, on August 24, Marcus W. Shadforth, M.A. (Cantab.), B.Pharm. (London), M.P.S., to Sylvia E. Moon.

WALLACE—HENRY.—At West Church of St. Andrew, Aberdeen, on August 10, by the Rev. James Scott, M.A., Alexander Profeit Wallace, M.P.S., 6 St. Swithin Street, Aberdeen, to Ina M. Henry, S.R.N., Netherton, Whitehouse.

DEATHS

GREEN.—On active service, Chief Volunteer Mary Winifred Green, Ph.C. (A.T.S. Motor Transport). Prior to joining the Auxiliary Territorial Services at the beginning of the year Miss Green was in charge of the dispensary at Radcliffe Infirmary, Oxford. Formerly she was in charge of the dispensing department at Boots, Ltd., Colmore Row, Birmingham, and later in the same firm's branch in Knightsbridge, London. Though in a reserved occupation, Miss Green gained entry into the A.T.S. by omitting to mention her profession. She qualified as a pharmaceutical chemist in 1935.

JEFFREY.—In Sheffield recently, Mr. John Edwin Jeffrey, M.P.S., 433 King's Road, Chelsea, London, S.W.10, aged sixty-seven. Mr. Jeffrey was returning home from Cumberland after attending an inquest on his youngest son, when he collapsed and died while driving his car.

TAYLOR.—On August 12, Mr. Thomas Marson Taylor, M.P.S., Dockhead Street, Saltcoats. Mr. Taylor passed the Minor examination of the Pharmaceutical Society in 1910.

THOMSON.—On August 30, Sir Joseph J. Thomson, O.M., F.R.S. (Master of Trinity College, Cambridge), aged eighty-three. Sir Joseph was born near Manchester on December 18, 1856. He entered Trinity College, Cambridge, in 1876, became second wrangler and Smith's prizeman in 1880, and in 1884 was appointed to succeed Lord Rayleigh as Cavendish Professor of Experimental Physics. He turned his attention to the phenomena accompanying the discharge of electricity through gases, and made the revolutionary discovery of the existence of what he termed "corpuscles" but which later became known as electrons; the first public announcement of their existence was made at the Royal Institution, London, in 1897. He was president of the Royal Society from 1915 to 1920 and was active in the formation of the Department of Scientific and Industrial Research.

WILSON.—At his home, Chatham Road, Kingston-on-Thames, on August 29, Mr. William Mainland Lewis Wilson, chemist and druggist, aged seventy-seven. Mr. Wilson, who qualified in 1889, spent some years in Sydney, Australia. On returning to England in 1909 he managed branch pharmacies for the late Mr. Alfred Higgs, Kingston-on-Thames. In 1922 he started in business for himself at Norbiton, Kingston-on-Thames, retiring on account of ill-health in 1938.

PERSONALITIES

PILOT-OFFICER W. BECKINGHAM, R.A.F.V.R., who was for many years the sales representative for Kolynos (Sales), Ltd., covering the South Western and Western Counties, is now under training as a wireless operator and air gunner.

MR. HAROLD WICKETT, D.F.C., M.P.S., 33 Kingsland High Street, London, E.8 (a member of the London Pharmaceutical Committee), is now serving with the Royal Air Force as a pilot officer. During the last war Mr. Wickett was a member of the Royal Naval Air Service.

MR. E. J. MILLARD, Ph.C. (see above) is senior honorary auditor of the Pharmaceutical Society, chairman of the Chemical Trade Section of the London Chamber of Commerce, and a director of C. J. Hewlett & Son, Ltd., manufacturing chemists, London, E.C. Mr. Millard takes an active interest in City affairs and is a Liveryman of the Fruiterers' Company and Freeman of City of London. He is also Past Master of Galen Masonic Lodge and holds London Grand Lodge Rank. He is a Fellow of the Chemical Society and of the Royal Microscopical Society.

LEGAL REPORTS

Application for Winding-up Order.—Mr. Justice Bennett, in the Chancery Division, on August 27, had before him a petition by Bismag, Ltd., Braydon Road, Stoke Newington, London, N., for the compulsory winding-up of Amblins (Chemists), Ltd., London, W. Mr. M. L. Gedge said he appeared for the petitioners, who were creditors for £69 13s. 10d. costs. The company opposed the petition. The debt arose out of litigation between the two companies, which had been taken as far as the Court of Appeal, and as the result of that Court's decision the sum in question became payable to the petitioners. Since the date of the presentation of the petition the bill of costs had been increased to £817. When petitioners attempted to levy execution they could find no assets, although the latter had been said to amount to £800. His Lordship said he would adjourn the petition for one day to give the respondent company an opportunity to find security for the sum of £817. The following day Mr. Laskie, for respondent company, said they were not in a position to pay the £817 into Court that day, but if the time were extended by twenty-eight days the money would be paid. Mr. Justice Bennett: "That is too long. If on or before September 9 the respondent company pays into a joint account, to be opened in the Midland Bank in the names of the solicitors to the petitioners and the company, the sum of £817 13s. 10d. as security for the debt owing by the company to the petitioning creditors, the petition will be dismissed. The company must pay the petitioners' taxed costs. If the money is not paid on or before that date, the winding-up order will be made."

COMPANY NEWS

P.C. means Private Company and R.O. Registered Office

J. D. HAWLEY, LTD. (P.C.).—Capital £300. Objects: To carry on business as chemists, druggists, medical botanists, opticians, etc. John D. Hawley, 37 Magdalen Street, Exeter, director.

MACKINDER'S LAMB FOODS, LTD. (P.C.).—Capital £100. Objects: To carry on business as manufacturers, and dealers in foodstuffs, medicines and powders for animals, etc. Arthur L. Tassell, Corwen House, South Wootton (a director of Arthur L. Tassell & Sons, Ltd.), chairman; Hugh W. Leggett, 10 Boston Square, Hunstanton (a director of Feedstuffs, Ltd.), managing; F. Foster, 72 Skirbeck Road, Boston (a director of Arthur L. Tassell & Sons, Ltd., etc.), Harold A. Tassell, 348 Wootton Road, King's Lynn (a director of Arthur L. Tassell & Sons, Ltd.), and Walter B. Lock, Ashley, South Wootton, King's Lynn (managing director, William Lock & Son, Ltd.), directors. R.O.: Nelson Street, King's Lynn, Norfolk.

ILFORD, LTD.—The appointment of Mr. B. L. Drake, F.C.I.S., as chairman of the company, in succession to the late Sir Ivor Philipps, K.C.B., D.S.O., is announced. Mr. Drake has spent practically the whole of his business life in the service of Ilford, Ltd. He joined the company forty-seven years ago as a junior correspondence-clerk, under the governing director and founder of the company, Mr. A. H. Harman. From the office he went to serve an apprenticeship in the factory, and the valuable knowledge and experience he gained during that period have been of the greatest value in later years. Mr. Drake spent his spare time in the study of business methods, banking, law and accountancy, passing several professional examinations. The company realised that his abilities could be better utilised in the offices, and he was transferred from the manufacturing side to the position of assistant secretary. In 1915 Mr. Drake was elected a Fellow of the Chartered Institute of Secretaries and in the same year, at the request of the chairman (General Ivor Philipps, D.S.O., M.P., as he then was) he became secretary and chief accountant, a position he has held for twenty-five years. He was elected to the board of directors in 1930, becoming managing director a few years later. To Mr. Drake fell the task of conducting the financial negotiations and arrangements necessary when the Ilford group came into existence through the acquisition by Ilford, Ltd., of the many companies which comprise it.

Voluntary Liquidation.—**WILLIAM L. DUNCAN, LTD.**, 31 Clapham Park Road, London, S.W.—The statutory meeting of creditors herein was held recently at Kimberley House, 14-17 Holborn Viaduct, London, E.C., when a resolution was passed confirming the voluntary liquidation of the company with Mr. Parkin S. Booth as liquidator. A committee was also appointed. According to figures which had been prepared the liabilities totalled £406. The assets were estimated to realise £241, but they were subject to preferential claims of £83. The net assets, therefore, were £158, or a deficiency, as regarded the creditors, of £248. It was reported that the company was incorporated in September, 1935, with a nominal capital of £500. Prior to April last the business was that of chemists and druggists, but owing to a fall in the turnover it became apparent that the business could not stand the expense of a qualified chemist. It was then decided to convert the business into a drug store. Since 1938 a full set of books had not been kept. The present position was attributed to a decline in turnover due to the war, the sales having fallen from £42 to £25 a week.

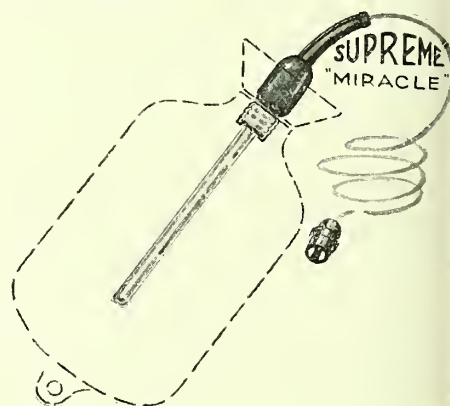
PLYMOUTH ASSISTANCE SCHEME

As announced in the *C. & D.*, August 24, p. 98, the Plymouth Branch of the Pharmaceutical Society has inaugurated a mutual insurance scheme that is open to all chemists, whether in large or small businesses, whether insured under the Government's insurance scheme, or with the National Pharmaceutical Union, or with neither. It is essentially a stock scheme. A chemist sustaining damage in an air raid may have £100 or a £1,000 in cash, but this is of no use to him if stock is unobtainable through local channels or, because of transport difficulties, from elsewhere. Moreover, if he is insured under the Government's scheme, payment of assessed damage may be delayed. The Plymouth plan enables chemists to overcome both of these difficulties until normal supplies come through. Each chemist joining the scheme signs and guarantees a credit note (if he has more than one branch, one for each shop). The unit value is £5. The secretary, on receiving the note, gives a stamped receipt as acknowledgment. A chemist sustaining damage notifies the secretary (producing this receipt) who places the case before the emergency committee (a committee of three, elected by members). The committee immediately inspects and assesses the damage, and authorises the secretary to release credit notes to that amount; there is a stop value of £400. The chemist then presents these credit notes on chemists concerned, together with a list of drugs and/or toilet goods, etc., he requires. These he collects, the responsibility for transport being his, and he agrees to return or pay for them at the earliest opportunity. Should his premises be damaged the emergency committee will help him to find suitable premises, but will not accept or undertake any financial responsibility in that respect. There is a pool of surplus equipment, one chemist loaning balances, another chairs, stands, etc., ready for the unfortunate one. There are forty-eight chemists participating in the scheme, yielding £240, and the stop value has been put at £100 in case two pharmacies get damaged at the same time. A point that appealed to most local chemists is that no cash payment is needed to join or start the scheme; no cash lies idle, nor is there any money to be shared out at the end of hostilities. The scheme can be dropped or recommenced at any time.

TRADE NOTES

SECURITY WINDOW-BRACE.—Many tributes have been paid to the value of the Security window-brace as the result of the recent air raids. J. R. Bateman, Ltd., 11 Buckingham Street, London, W.C.2, are the distributors of this device, and there are agents in most districts.

ELECTRIC BED COMFORT.—The accompanying illustration shows the Supreme Miracle electric hot-water bottle heater produced by L. G. Hawkins & Co., Ltd., 30 Drury Lane, London, W.C.2. The heater is designed to fit the majority of rubber hot-water bottles and keeps the water hot for an indefinite period. The makers claim that it can be operated for 100 hours for one unit of electricity, and when in constant use is cheaper than boiling water for the bottle every night. When in use, no metal part touches the body.



PARKE, DAVIS & Co., Beak Street, London, W.1, have recently added two new products to their list. These are mersaryl solution, which is issued in 2 c.c. ampoules, each containing 0.2 gm. (gr. 3) of mersaryl and 0.1 gm. (gr. 1½) of theophylline; and Nikethamide, available in boxes of six or 100 glaseptic ampoules of 2 c.c., each containing a 25 per cent. solution.

Business Changes

DUOFORM, LTD., manufacturing chemists, have removed to 50 Gray's Inn Road, London, W.C.1.

BOOTS, LTD., have acquired the old-established pharmacy of Mr. O. L. Carrington, M.P.S., 18 High Street, Chipping Norton.

GENERAL KAPUTINE SYNDICATE, LTD., have removed to the Gem Works, Fields New Road, Chadderton, Oldham. (Telephone: Oldham Main 3045.)

COUNCILLOR O. L. CARRINGTON, M.P.S. (mayor of Chipping Norton, Oxfordshire) has acquired the business of Peebles the Chemists, 5 High Street, Dorking, from Mr. W. M. Nicoll, M.P.S.

SHOP-EARLY-IN-THE-WEEK APPEAL.—Mr. H. Burns (secretary, Manchester Grocers' Association) stated recently that owing to prevailing conditions many traders whose staffs had been depleted by the demands of the Services were seriously embarrassed by the tendency of the public to leave their shopping each week until Friday or Saturday. Business in the early part of the week was quiet, and it would be a great help to staffs and a saving in time to customers for people in a position to do so to shop early in the week.



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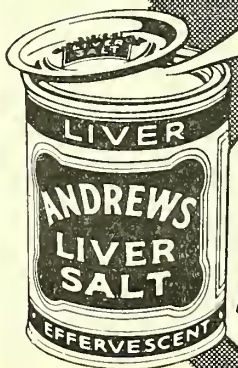


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DL. CXXXIII September 7, 1940 NO. 3161

CONTENTS

	PAGE		PAGE
Books, New	130	News of the Week	123
Business Changes	126	N.P.U. War Distress Fund	127
Commercial Notes	134	Personalities	125
Company News	126	Pharmaceutical Society of Great Britain:—	
Deaths	125	Council Meeting	
Editorial Articles:—		Coloured Supplement	
Chemists' A.R.P. Co-operation	129	Plymouth Mutual Assistance	126
Winter Shopping Hours	129	Scheme	126
Purchase Tax Registration	129	Recent Research	129
Empire and Foreign News	125	Stock Exchange Prices	129
Legal Reports	126	Coloured Supplement	
Letters	134	Topical Reflections	124
Marriages	125	Trade Notes	126
Medical Abstracts	125	Trade Report	131
Coloured Supplement		Vitamin B ₆	130
Miscellaneous Inquiries	134		

Chemists' A.R.P. Co-operation

THE charge has often been levelled at chemists in past years that they are too individualistic to co-operate with one another. Old prejudices are hard, but we do feel that this one, if it still holds in some quarters, is certainly not justified today. On the contrary, chemists can not only combine but are effectively uniting in many parts of the country, both for their own interest and in the service of the public. Two local schemes have come to our notice that bear out this view. The first was described in a letter from the secretary of the Peterborough Chemists' Association published in last week's issue of the *C. & D.* Members of this Association offered their services as a body in the city's air-raid casualty services and were accepted. In view of the cold reception that has met similar offers in certain other quarters in the past, this fact might give rise to some surprise, but two factors should be noted. First, the Peterborough pharmacists had all qualified in first aid before they offered their services, and secondly, they merged themselves into the official A.R.P. organisation of their city. In this way, their services became ancillary, and not independent of, the existing organisation, while the chemists have retained a substantial measure of autonomy. Under the Peterborough plan certain pharmacies are selected as being always available during a daylight raid, while others are opened up at night in the event of an aerial attack. The names of all pharmacies concerned are made public. A significant point is that many of those co-operating attend pharmacies different from those at which they are employed as proprietors or assistants, while, if casualties should be concentrated in the locality, more attend in that district. It is not necessary to enter into the full details of the scheme, but we feel that sufficient has been outlined to commend the idea to other towns. The other plan referred to in our opening sentence is one by which Plymouth chemists will assist any of their number whose business suffers damage in an air raid. The plan is not the first of its kind, but it has features which, so far as we are aware, are new. For example, instead of depending on financial contributions from members or on the accumulation of reserve funds, it concerns itself with actual goods. All chemists participating subscribe credit notes, value £5, which they may be called upon to redeem in goods after an emergency committee has inspected and assessed the value of the damage at any pharmacy affected. There is a "stop" value of £100 (related to the number of subscribing members), but with this maximum the victim draws from his fellow members, to the amount of the committee's assessment, the items required for carrying on his business. He has to undertake responsibility for carriage of the goods from his premises, and there is no obligation on members to accept financial responsibility for alternative premises, should these be necessary, though the committee assists in finding them. The scheme has the merits that it is extremely simple and practical in character and it should work well so long as members retain full confidence in one another. Neither the Plymouth nor the Peterborough plan is of a kind that could be imposed successfully by a central authority, and the fact that both have arisen spontaneously and have been worked out locally

augurs well for the survival and regeneration of pharmacy after the present difficult times have been brought to an end.

Winter Shopping Hours

REQUESTS have been made to the Minister of Home Security and the Home Secretary by the Early Closing Association and the National Amalgamated Union of Shop Assistants, Warehousemen and Clerks for an early statement on the subject of shopping hours during the coming winter. It is suggested that the necessary Order in Council should determine closing hours, which should be applied generally, with no exceptions permitted to local authorities to extend the hour of closing unless the circumstances are exceptional. It is agreed that due consideration must be given to the needs of the shopping public, but suggested that these can be met by six o'clock closing on four nights of the week, with one night at a later hour, though not later than seven o'clock. The request of the employees' organisation for an early decision by the authorities on the subject is timely, and there is a good deal to be said for their submission that, whatever the restriction imposed on business hours during the coming six months, they should, with but few exceptions, be applied generally throughout the country.

Purchase Tax Registration

THE Finance Act that has just become law empowers the Commissioners of Customs and Excise to prescribe the final date by which persons who are required by law to register for Purchase Tax purposes must do so. The Commissioners have made an Order requiring all persons now carrying on a registrable business to apply for registration before September 20, 1940. Manufacturers of Purchase Tax goods and wholesale dealers in such goods who have not yet received a copy of the Customs explanatory leaflet and the necessary form of application for registration should obtain one, without delay, from their local Officer of Customs and Excise or from the Custom House, London, E.C.3.

Registration under the Purchase Tax is, of course, entirely distinct from the Board of Trade registration in connexion with the Limitation of Supplies Orders, though the two schemes have certain features in common. The question has been asked why registration is necessary for Purchase Tax purposes. The first answer is that it is a legal obligation, and heavy penalties are incurred for failing to comply before the above date. But there is more in it than this. A firm which is not registered is unable to buy Purchase Tax goods tax-free for its business. On the other hand, a firm incurs no additional liability by registration, since the obligation to pay tax on its sales of such goods to retailers exists under the law whether the firm is registered or not. Copies of the order referred to (S.R. & O., 1940, No. 1552) may be obtained from H.M. Stationery Office, Kingsway, London, W.C.2.

RECENT RESEARCH

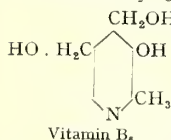
Charcoal Reactivation.—Brown and Bemis ("Industrial and Engineering Chemistry," 32.8.1112), discuss the revivification of activated charcoal by thermal decomposition or heat treatment. Spent charcoal containing 8 to 15 per cent. moisture passes into the retorts where reactivation takes place at 800–900° F. The reactivated charcoal passes directly into cooling pipes, and finally emerges on to a belt and bucket conveyor system which delivers it to the charcoal filters.

Sulphonated Arylstearic Acids.—Stirton, Peterson and Groggins ("Industrial and Engineering Chemistry," 32.8.1136) report on a study of the sulphonation products of arylstearic compounds derived from oleic acid. The sodium sulphonylstearates have penetrant and emulsifying properties, and the free acids are fat-splitting reagents. The preparation and resistance to precipitation by calcium salts of eight monosulphonated products were recorded. The disodium sulphonylstearates, it was stated, can be used effectively in hard water, and have about the same degree of calcium stability (400 to 700 p.p.m. calcium carbonate) as six of thirteen commercial wetting agents listed. The disodium sulphonylstearates were tested for their resistance to boiling alkali and acid. The wetting efficiency of a 0.2 per cent. solution of disodium sulphonylstearate in 15 per cent. sodium hydroxide remained unchanged after refluxing for two hours. When the same treatment was given to a 0.2 per cent. solution in 2 per cent. sulphuric acid, the sinking time increased from 20 to 42 seconds. This degree of stability represents an advantage over wetting agents with an ester linkage. Some samples of the ester types of commercial wetting agents lost all penetrant properties when they were heated in acid solution under the same conditions. All of the preparations of the disodium sulphonylstearates were slightly alkaline in 0.2 per cent. solution (pH 7.4 to 7.8), and it was found that the penetrant properties were quite sensitive to acidity and alkalinity. When a 0.2 per cent. solution was made slightly acid with sulphuric acid, the sinking time in most cases decreased notably. Wetting-time measurements were made on these compounds in 1, 2, and 5 per cent. sulphuric acid and in 1, 5, 15, and 20 per cent. sodium hydroxide. Wetting time increases as the acidity increases from 1 to 5 per cent. sulphuric acid. The wetting efficiency is poor in 1 per cent. solution hydroxide sodium.

VITAMIN B₆

VITAMIN B which, up to 1919, was supposed to be a single entity, has in the interval proved to be a veritable cornucopia. Since the original separation into thermostable and thermolabile fractions in 1926, there has been a further resolving of both these fractions into new factors, some of which have been isolated, identified and synthesised, whereas others remain more or less problematical. Among the most recently identified and synthesised members of the B group of vitamins is vitamin B₆. Before its isolation in 1938 the vitamin possessed a number of aliases—from factor Y of Chick & Copping, 1930, factor I (Lepkowsky, 1936), antidermatitis vitamin or vitamin H (Hogan & Richardson, 1936) and antiacrodynia vitamin, to vitamin B₆ (Gyorgyi, 1934) and adermin (Kuhn, 1938). The elucidation of its constitution led Gyorgyi to suggest the name pyridoxin in 1939 and this has now been adopted officially—at least in America.

Constitutionally, vitamin B₆, like nicotinic acid, is a pyridine derivative—2-methyl-3-hydroxy-4:5-di(hydroxy-methyl) pyridine. It was originally concentrated by fractional adsorption from aqueous extracts of yeast, tiki tiki, rice bran, fish muscle and wheat germ by adsorption on fuller's earth after removal of vitamin B₁ and flavins, and the pure crystalline product was isolated in 1938 in several laboratories. The synthesis soon followed in the next year by Harris &



Folkers in America and Kuhn and his colleagues in Germany. Rats fed on diets deficient in vitamin B₆ develop cutaneous symptoms consisting of a symmetrical dermatosis affecting first the paws, then the tips of the ears and nose, which become red and swollen. Since the isolation of the vitamin there have been a large number of studies of its physiological action on animals, and clinical studies to determine whether it is essential to human nutrition are now beginning to appear. Fouts *et al.* observed the development of a microcytic hypochromic anaemia in dogs deficient in vitamin B₁. The rapid cure of the anaemia by administration of 60 micrograms of the crystalline vitamin per kilo of body weight points to a connexion between it and haemoglobin formation. Similar observations have been made in pigs; during the deficiency period pigs suffer from epileptic fits. Rats fed on a diet *plus* vitamin B₆ showed greater weight and greater body fat than controls in which the B₆ was omitted, in spite of the fact that the food intake was made identical in both cases. Vitamin B₆, therefore, appears to effect a more efficient utilisation of food. It has been found essential for chicks and pigeons and is also an essential growth factor for various bacteria including lactic acid bacteria as well as for yeast. The identity of the natural and synthetic products has been shown by their equality in promoting the growth and acid production of *B. acetylcholini*, as well as by growth and anti-dermatitis tests on rats.

In the clinical field, most of the investigations reported to date come from the United States of America. Spies *et al.* found that certain undernourished persons showing clinical signs of pellagra and beri-beri also show symptoms that are not corrected by administration of vitamins B₁, B₂ and nicotinic acid. These symptoms include extreme nervousness, irritability, insomnia, abdominal pains, weakness and difficulty in walking. Within a few hours after intravenous injection of 50 mgm. of vitamin B₆, dramatic relief of symptoms and increase of strength were observed. Improvement has also been remarked in certain cases of idiopathic epilepsy, amyotrophic lateral sclerosis and myasthenia gravis. The dramatic beneficial effect of the vitamin in relieving muscular weakness and rigidity led to an investigation of its value in the condition known as Parkinson's syndrome (paralysis agitans) a lingering form of paralysis accompanied by tremors of the extremities. Improvement was produced in certain cases of both arteriosclerotic and postencephalic forms of the disease. Antopol and Schotland describe six cases of muscular atrophies responding spectacularly to the vitamin both in children and adults. Thus a boy of five who could only pull himself upstairs by the banister was able, after one month's treatment with 10 mgm. doses given subcutaneously at four-day intervals, to walk without the aid of his hands. Vilter *et al.* report on the administration of 50–100 mgm. daily for ten days to pellagrins with macrocytic anaemia and patients with pernicious anaemia. Within forty-eight hours all patients experienced a sense of well-being and strength, and from the fifth day there was a slight but definite reticulocytosis and a striking improvement in the white cell count.

Considerably more clinical investigation is necessary before the therapeutic value of vitamin B₆ can be reliably assessed, but the results obtained in these early stages give indications of valuable uses for the product. From the nutritional point of view it is important to know what natural foods contain vitamin B₆. Fruit and vegetables are poor sources; fish and meat are fair sources, while seeds, legumes and cereals are relatively rich. Cod liver and cod roe are also rich sources, though cod meat is poor. Sardines are fair sources, but the outstandingly rich sources are certain vegetable fats such as the oils from soya bean, cottonseed and wheat germ.

NEW BOOKS

The Chemical Manufacturer's Directory.—8 in. × 5½ in. Pp. 48. 6d. Simpkin Marshall, Ltd., 21 City Road, London, E.C.1. [The seventy-second edition of this useful trade directory has just been published. The lists of classified chemicals with makers and the lists of chemical manufacturers, brokers and merchants in England, Scotland, Wales and Ireland, showing the products they handle, form a quite reliable reference.]

Cavell, A. C.—*An Introduction to Chemistry*. 7½ in. by 5½ in. 701 (in two volumes, 6s. vol. 1, 4s. vol. 2, or 10s. for both). Macmillan & Co., Ltd., St. Martin's Street, London, W.C.2. [Part I of this volume, which is published separately from Parts II and III, is concerned with organic chemistry of school-certificate standard, but includes a small amount of more advanced material. A new departure, which will be welcomed by students, is the inclusion of historical notes at the end of the chapters. The book is well indexed and contains several pages of very practical revision notes. Questions selected principally from recent school certificate papers are also included. Parts II and III, which are published together in one volume, provide an elementary introduction to both physical and organic chemistry which should be sufficient for the first year of specialisation after the school certificate.]

Miall, S. *A New Dictionary of Chemistry*. 9 in. by 6 in. Pp. 428. Longmans, Green & Co., Ltd., 39 Paternoster Row, London, E.C.4. [Conciseness is the keynote of this handy work of reference. Dr. Miall, with the assistance of many well-known chemists, has succeeded in presenting within the compass of one convenient volume a wide range of information on chemical and allied substances. The dictionary will be of great assistance not only to chemists but to the much wider circle of those who from time to time find a need for accurate information on chemical matters. One of the most interesting features of the book is the inclusion of biographical notes on many past and present chemists; information of this nature is not always easy to acquire and should prove of considerable value. Some thirty pages at the end of the book are devoted to tables of physical constants of about 1,800 organic compounds, a feature which the author hopes will be useful to a large number of chemists.]

Bell, D. J. *Introduction to Carbohydrate Biochemistry*. 7½ in. by 4½ in. Pp. 112. 3s. 6d. University Tutorial Press, Ltd., Clifton House, Euston Road, London, N.W.1. [In surveying the principal known reactions played by carbohydrates and their derivatives in nature, the author opens the subject by giving an account of the origin of these substances and draws attention to the importance of the group as a link between the radiant energy emitted by the sun and the demands of living tissue—plant and animal—for supplies of energy for metabolic purposes. The opening chapters are devoted to the fixation of carbon and energy in photosynthetic processes, sugars and polysaccharides, while subsequent chapters deal with the liberation of energy from carbohydrates in the metabolism of carbohydrates in muscle and their enzymic breakdown; plant glycosides; and nucleotides. Although primarily intended for students of biochemistry, the book will also provide a useful source of information to students and teachers in chemistry and natural sciences.]

Schroff, M. L. *Elements of Physico-Pharmaceutical Calculations*. 7½ in. by 5 in. Pp. 281. United Provinces Pharmaceutical Association, Benares Hindu University. [Here is a book which will make a considerable appeal to pharmaceutical students of physical chemistry, particularly those who feel the need of practice in the numerical problems connected with the subject. The book is based on a course of lectures given to first year students in pharmaceutical chemistry, and as such students are expected to have had previous training in elementary chemistry and physics no unnecessary space has been given to fundamental concepts of chemistry. Among the subjects treated in the volume are computation rules; electrolytes—the subject of hydrolysis and ion concentration receiving considerable attention; indicators; oxidation-reduction potentials; solubility-product principle; gravimetric analysis. A chapter is given to miscellaneous calculations and an appendix includes many useful tables and other physico-chemical data.]

Radley, J. A. *Starch and its Derivatives*. 9 in. × 5½ in. Pp. 346. Chapman & Hall, Ltd., 11 Henrietta Street, London, W.C.2. [This volume, which is one of a series of monographs on applied chemistry, records in its twenty-two chapters, divided into four parts, the results of a comprehensive study, made by the author, of starch and its derivatives. In clarifying the history of starch the author reveals that traces of starch adhesive have been found on documents from 3500 B.C. He then discusses in some detail the chemical structure and physical chemistry of starch and its reactions with iodine. Six chapters are devoted to the manufacture of starch and derivative compounds and another seven to the industrial applications of the substances. The general examination of starch and the analysis of dextrin are dealt with in a further section at the end of which is included a number of art pages in which are reproduced striking photomicrographs of various starch grains; these illustrations should be of considerable assistance in identifying a particular starch.]

TRADE REPORT

ot quotations recorded for pharmaceutical chemicals, crude drugs, essential oils, etc., represent the prices for wholesale quantities of standard quality. C.i.f. shipment quotations do not include marine war risk insurance and other abnormal charges which arise in the present emergency

28 Essex Street, W.C.2, September 4

The majority of markets have experienced a quiet week of business, but the general tone continues firm and prices are well maintained. Business in PHARMACEUTICAL CHEMICALS continues on routine lines, with most products quoted steady and a fair amount of seasonal inquiry being received. There have been no material alterations in prices during the week. Supplies of IDOPYRINE are reported to be rather limited, and the price is firm. BENZALHYDE continues in short supply, with makers' prices firm and nominal. There is no improvement in the supply position of BENZOIC ACID, and it is likely that this product will continue difficult for some time to come. CREAM OF TARTAR is steady at the advanced price notified by makers last week. CHARIN continues to be quoted unchanged at Convention prices. SODIUM AZOATE is firm at the recent advance.

Crude Drugs

There has been quite a fair amount of inquiry from the home consuming trade for some products, while other items remain neglected. The general tone of the market is fully steady, with no indication of any weakness in spot values. Spot trade in AGAR continues along normal lines. Most varieties of GUMS are in short supply, but quotations are unaltered. Little business is reported in BUCHU, but values are holding firm. A fair amount of business is reported in Japanese CAMPHOR. Some occasional spot business is noted in CACAO SAGRADA at fair prices. Zanzibar and Madagascar CLOVES are again quoted dearer. A fractional advance in the spot price of foreign COCOA BUTTER is noted. The spot value of DESICCATED COCONUT shows a further rise this week. Supplies of DANDELION root in first hands are now exhausted, but the situation will be eased when the domestic autumn-dug crop becomes available towards the end of the present month. Spanish-Portuguese ERGOT is reported to be easier for shipment; spot is about unchanged, but some near-at-hand material could possibly be secured at slightly lower prices. The market for GINGER root now appears to be practically bare of supplies. An advance in the spot price of West African GINGER is noted; the Jamaican variety continues at previously quoted figures. Dealers are quoting HENNA leaves at slightly increased prices, but first-hand supplies now appear to be practically exhausted. Stocks of all descriptions of HONEY continue limited, but spot prices are well maintained. Both MATTO GROSSO and MINAS IPECACUANHA are quoted unchanged. EXT. IPECAC. LIQ. continues to be offered at the lower prices recorded last week. A routine trade continues in MENTHOL, with values keeping fully steady. PEPPERS are firm, the values of most descriptions being about level on the week; white Muntok is a shade easier on spot. NEW-PIMENTO is quoted slightly easier for shipment. Values of RUBBER, spot and forward, are slightly easier. SENEGA is quoted rather firmer on spot. The varieties of TRAGACANTH are quoted fractionally easier on the week. VALUES continue firm on a quiet market.

Essential Oils

The week's business in these markets has been on the quiet side, but values are fully maintained. Some products are still in short supply, and in this connexion artificial substitutes offered at attractive prices by British makers such as essential oils as bergamot, lemon and neroli are of interest. The Ministry of Food announces that the only change in the prices of oils and fats for the period September 2 to 28 allocated to primary wholesalers and large users is a reduction in the price of crude NIGER oil to £40 10s. per ton, net ex works. Rather more business is reported in ANISE (STAR); spot values are maintained, and there are no offers from origin. AVOCADO PEAR continues steady, with current quotations unchanged. BAY is quiet. BOIS DE INDIE, in limited supply, continues firm. The demand for CITRONELLA is erratic, but values are fully steady. EUCALYPTUS continues dull. Good-quality GARNIUM is quoted a fraction dearer on spot. ORANGE is quiet.

Exchange Rates on London

The following is a list of the chief Continental and other exchange rates at opening on Wednesday morning:—

Centre	Quoted	Par	August 28	September 4
Belgian Congo	Frs. to £	nominal	176½*	176½*
Buenos Aires	Paper pesos to £		17-02*	17-02*
Paris	Florins to £	12-107	7-60*	7-60*
London	Esc. to £	110	100*	100*
Madrid	Ptas. to £	25-24½	37-25	37-25
Bombay	Dols. to £	4-86½	4-45*	4-45*
New York	Dols. to £	nominal	4-03*	4-03*
Hankow	Per dollar		3½d.	3½d.
Shanghai	Kr. to £	18-150	16-90*	16-90*
Manila	Per yen	28.	18. 24d.	18. 24d.
Yokohama	Frs. to £	22-2115	17-70*	17-70*

* Rate fixed by Bank of England. Bank rate, 2 per cent

Pharmaceutical Chemicals, etc.

There is some suggestion of the usual seasonal quietness, the general tone on spot continues fairly steady, with business about average. Price changes are few in number and none is of outstanding importance. Cream of Tartar is steady at the advance recorded last week.

IDOPYRINE.—Dealers' spot prices unchanged; market firm. One cwt., at 27s. 6d. per lb.; smaller quantities, up to about 30s. per lb. for crystals, and powder 3d. per lb. extra.

AMMONIUM ICHTHIOSULPHONATE.—Spot values unchanged; one-cwt. lots, at 4-lb. tins, about 5s. per lb., ex store.

ATROPINE.—Makers' prices are steady: ALKALOID, 21s. per oz.; 4 oz. at 20s. 6d. and 25 oz. at 20s. per oz. SULPHATE, 16s. 6d. per oz.; 4 oz. at 16s. and 25 oz. at 15s. 6d. per oz. Bottles, under 5 gm. or ½ oz., corked, 3d.; stoppered, 5d.; 5 gm. to 25 gm. or ½ oz. to 1 oz., corked, 3½d.; stoppered, 6d.; 25 gm. or 1 oz., corked, 3½d.; stoppered, 7½d.; 50 gm. or 2 oz., corked, 4d.; stoppered, 9d. each; 100 gm. and over, included in price; tubes, per 100, 5-gr., 10s. 6d.; 10-gr., 12s. 3d.; 15-gr., 14s.

BARBITONE.—Market firm. Dealers are quoting as follows: Spot, one cwt., 22s. per lb.; 28 lb., 23s.; smaller quantities, up to 26s., ex store.

BENZALDEHYDE.—Continues in short supply; market firm. Makers are quoting a nominal price of from 3s. per lb.

BENZOIC ACID (B.P.).—Makers report that their prices continue nominal at 2s. 6d. to 3s. per lb., according to quantity. There is no improvement in supplies, which are likely to be short for some time ahead.

BENZYL BENZOATE.—Makers continue to quote a nominal price of 2s. 9d. to 3s. per lb., according to quantity.

BISMUTH SALTS.—Makers' scales of prices per lb. continue steady, as follows:—

	Under 4 lb.	4 lb. and under 8 lb.	8 lb. and under 28 lb.	28 lb. and under 1 cwt.	Not less than 1 cwt.
Carbonate	s. d. 11 3	s. d. 10 9	s. d. 10 0	s. d. 8 7	s. d. 8 4
Citrate	13 4	12 10	12 1	10 4	10 1
Nitrate, cryst.	7 7	7 1	6 4	5 7	5 4
Oxide	15 4	14 10	14 1	12 0	11 9
Salicylate	11 9	11 3	10 6	9 0	8 9
Subchloride	14 11	14 5	13 8	11 8	11 5
Subgallate	11 11	11 5	10 8	9 2	8 11
Subnitrate	9 11	9 5	8 8	7 6	7 3

Rebate of threepence per lb. allowed off 1-cwt. prices on sales of not less than 2 cwt., or against contracts of not less than 2 cwt., provided whole of contract quantity is ordered within three months. Prices net. Payments in fourteen days. For quantities of 28 lb. and upwards in the home trade, an extra charge of threepence per lb. is made for 1-lb. cartons and 1-lb. parcels, and it is a condition of re-sale that this extra charge shall apply even when repacking into 1-lb. cartons or 1-lb. parcels is effected by the purchaser. Smaller quantities than 28 lb. are not subject to this extra charge. Under present conditions all prices and sale conditions are named without engagement.

BORAX (B.P.).—Makers' prices are steady: Granulated, £31; crystals, £32; powder, £32 10s. per ton, in 1-cwt. bags, carriage paid in Great Britain, for minimum one-ton lots. Commercial quality, £8 per ton less.

BORIC ACID (B.P.).—No change in makers' prices: Granulated, £45 10s.; crystals, £46 10s.; powder, £47 10s. per ton, in cwt. bags, carriage paid in Great Britain, for minimum one-ton lots. Commercial qualities, £8 per ton less.

BROMIDES.—Makers' scales of prices steady. POTASSIUM, B.P., not less than 5 cwt., 2s. 2d. per lb.; 1 cwt., 2s. 3d.; 28 lb., 2s. 9½d. SODIUM, B.P., not less than 5 cwt., 2s. 4½d. per lb.; 1 cwt., 2s. 5½d.; 28 lb., 3s. AMMONIUM, B.P.C., not less than 5 cwt., 2s. 5½d. per lb.; 1 cwt., 2s. 6½d.; 28 lb., 3s. 1d. Net. Rise-and-fall and re-sale clauses apply. Without engagement. Special prices for larger quantities. 28-lb. parcels and 1-cwt. cases or kegs free.

CALCIUM LACTATE.—Small quantities are quoted by makers at up to 1s. 8d. per lb., but business is quiet.

CITRIC ACID.—Makers' nominal price of 1s. 2d. per lb., less 5 per cent. discount, continues unchanged. Any material in dealers' hands would be worth about 1s. 6d. per lb.

COCAINE.—British makers' quotations for wholesale bulk quantities are as follows: HYDROCHLORIDE and NITRATE, 25 oz. and over, 29s. 9d.; 16 oz. and less than 25 oz., 30s. 9d.; over 8 oz. and less than 16 oz., 31s. 9d. per oz. ALKALOID, CITRATE and SALICYLATE, 25 oz. and over, 32s. 6d.; 16 oz. and less than 25 oz., 33s. 6d.; over 8 oz., and less than 16 oz., 34s. 6d. per oz., 16-oz. packages free. Smaller packing extra. The scale of prices applicable to distributors of smaller quantities is as follows: HYDROCHLORIDE and NITRATE, 8 oz., 34s. 1d.; 4 oz. and less than 8 oz., 34s. 7d.; 2 oz. and less than 4 oz., 35s. 5d.; 1 oz. and less than 2 oz., 36s. 5d.; ½ oz. and less than 1 oz., 37s. 11d.; ¼ oz. and less than ½ oz., 40s. 11d. per oz. ALKALOID, CITRATE and SALICYLATE, 8 oz., 36s. 10d.; 4 oz. and less than 8 oz., 37s. 4d.; 2 oz. and less than 4 oz., 38s. 2d.; 1 oz. and less than 2 oz., 39s. 2d.; ½ oz. and less than 1 oz., 40s. 8d.; ¼ oz. and less than ½ oz., 43s. 8d. per oz., packages extra. Re-sale: Sales are subject to buyers' undertaking not to re-sell any quantity below the scale of prices for such quantity current at the time of re-sale. Export prices vary according to destination.

CREAM OF TARTAR (B.P.).—Makers' nominal price of 152s. per cwt., less 2½ per cent. discount, continues unchanged, with supplies restricted to regular consumer customers.

CREOSOTE (BEECHWOOD).—Bulk quantities, in 25-kilo demijohns, are quoted by dealers at about 6s. upwards per lb.

EMETINE HYDROCHLORIDE.—Makers continue to quote at from 100s. to 104s. per oz., according to quantity.

EPHEDRINE HYDROCHLORIDE (B.P.).—Values range from 7s. to 8s. per oz. for ordinary quantities. Lots of 1,000 oz. would be at a slightly lower figure.

GUAIACOL CARBONATE.—No change in makers' or dealers' quotations of from 12s. 6d. to 13s. per lb., ex store, as to quantity.

GUAIACOL (CRYSTALS).—Makers' prices are steady at the recent advance; supplies continue short, and quotations are nominal at about 12s. 6d. per lb. Liquid, also in limited supply, is now quoted at about 12s. 6d. per lb.

HEXAMINE.—Market steady; average business. Free-running crystals quoted at from 2s. 1d. to 2s. 3d. per lb., ex store, as to quantity. Powder at cheaper prices.

IODIDES.—Makers' scales of prices continue steady: **POTASSIUM, B.P.**, not less than 1 cwt., 8s.; 28 lb., 8s. 6d.; 14 lb., 9s.; 7 lb., 10s. 2d.; 4 lb., 10s. 8d.; smaller quantities, 11s. 2d. per lb. **SODIUM, B.P.**, not less than 28 lb., 8s. 10d.; 14 lb., 9s. 4d.; 7 lb., 10s. 9d.; 4 lb., 11s. 5d.; smaller quantities, 12s. 3d. per lb. **IODINE, B.P., RESUB.**, not less than 1 cwt., 9s. 2d.; 28 lb., 9s. 7d.; 14 lb., 10s. 2d.; 7 lb., 11s. 7d.; 4 lb., 12s. 3d.; smaller quantities, 13s. per lb. **IODOFORM, B.P. (CRYST., PRECIP. OR POWDER)**, not less than 28 lb., 11s. 4d.; 14 lb., 11s. 10d.; 7 lb., 13s. 9d.; 4 lb., 14s. 7d.; smaller quantities, 15s. 5d. per lb. Contracts for 1 cwt. and upwards (assorted if desired) for delivery as required during three months, with the following clause: Price applicable to any delivery is that in force on date of dispatch. One-cwt. cases charged extra; 28-lb. tins 2s. each and non-returnable. All bottles charged for but credited in full if received back carriage-paid in good condition within three months. Carriage paid on any quantity. Assorted quantities charged for at collective total prices on orders for 14 lb. and upwards. It is a condition of sale that buyers undertake not to re-sell any quantity at prices or terms below scale for such quantity current at time re-sale is made.

LACTIC ACID (B.P.).—Average business; market steady. Quantities, in 1-cwt. carboys, about 1s. 8½d. per lb.; in winchesters and bottles, about 1s. 9d. to 2s. per lb., ex store, according to quantity.

MERCURIALS.—Controlled prices for these salts continue unchanged:—

Mercury Compound	Over 7 lb. but less than 28 lb.	28 lb. and over but less than 1 cwt.	1 cwt. and over but less than 2 cwt.	2 cwt. and over but less than 5 cwt.	5 cwt. and over
Bichloride, powder	s. d. 12 8	s. d. 12 4	s. d. 12 3	s. d. 12 2	s. d. 12 0
Bichloride (industrial users) ..	12 8	12 4	12 3	12 1	11 11
Bichloride, lump	13 3	12 11	12 10	12 9	12 6
Ammonium chloride, powder ..	14 7	14 3	14 2	14 1	13 7
Ammonium chloride, lump ..	14 5	14 1	14 0	13 11	13 5
Chloride (mercurous)	15 0	14 8	14 7	14 6	14 4
Oxide, red crystalline, B.P. ..	16 9	16 5	16 4	16 3	16 1
Oxide, red levigated, B.P. ..	16 3	15 11	15 10	15 9	15 9
Oxide, red technical	All quantities—15s. 6d. per lb.				
Oxide, yellow levigated, B.P. ..	16 2	15 10	15 9	15 8	16 8
Oxide, yellow technical	All quantities—15s. 2d. per lb.				

Packages free for quantities of 28 lb. and over; delivery free on orders of £20 and over.

MERCURY IODIDES.—Makers' prices per lb. are steady as follows: **RED**, less than 7 lb., 17s. 8d.; not less than 7 lb., 17s. 4d.; not less than 14 lb., 16s. 10d. **GREEN**, less than 7 lb., 19s. 6d.; not less than 7 lb., 19s. 2d.; not less than 14 lb., 18s. 8d. **YELLOW**, less than 7 lb., 21s. 3d.; not less than 7 lb., 20s. 11d.; not less than 14 lb., 20s. 5d., net, carriage paid.

METHYL SULPHONAL.—Business quiet; spot value would be between 40s. and 42s. 6d. per lb., ex store, for small supplies.

PARALDEHYDE.—Spot prices are at about 11d. to 1s. per lb., in one-cwt. carboys, according to quantity.

PHENACETIN.—Makers' prices for ordinary quantities are at about 3s. 9d. to 4s. per lb., without engagement. Dealers' prices continue firm at from 7s. 6d. to 7s. 9d. per lb.

PHENAZONE.—Market quiet; quotations unchanged. Bulk quantities would be worth about 17s. 6d. per lb.; small parcels, up to 22s. per lb., ex store.

PHOTOGRAPHIC CHEMICALS.—Home makers' prices are as follows: **SODIUM HYPOSULPHITE.**—5 cwt., 20s.; 1 cwt., 23s.; 56 lb. for 12s. 6d.; 28 lb. for 6s. 6d. **SODIUM CARBONATE, RECRYST.**—5 cwt., 13s. 9d.; 1 cwt., 17s.; 56 lb. for 12s. 6d.; 28 lb. for 6s. 6d. **ALUM (PHOTOGRAPHIC QUALITY).**—1 cwt., 23s.; 28 lb. for 6s. 6d. **GLYCIN.**—7 lb., 13s. 6d.; 1-lb. bottles, 14s. 6d. **POTASSIUM FERRICYANIDE.**—Prices were recently advanced by sixpence per lb., as follows: 28 lb., 3s. 1d.; 14 lb., 3s. 3d.; 7 lb., 3s. 6d.; less than 7 lb., 3s. 9d. per lb.; 1-lb. bottles, 4s. 3d.; 8-oz. bottles, 2s. 6d.; 4-oz., 1s. 5d.; 1 oz., 10d. each. **AMIDOL.**—1 cwt., 8s. 6d.; 56 lb., 8s. 9d.; 28 lb., 9s. per lb., net; 14 lb., 9s. 9d.; 7 lb., 10s. 6d.; less than 7 lb., 12s. 6d. per lb., 2½ per cent. monthly account. Bulk parcels and tins free. 1-lb. bottles, 6d. extra. **CHLOROQUINOL.**—1-lb. bottles, 21s. per lb. **HYDROQUINONE.**—1 cwt., 6s. 4½d.; 56 lb., 6s. 7d.; 28 lb., 6s. 10d. per lb., net; 14 lb., 7s. 3d.; 7 lb., 7s. 6d.; less than 7 lb., 8s. per lb.; less 2½ per cent. monthly account. Retail quantities: 16 oz., 8s. 6d.; 8 oz., 4s. 6d.; 4 oz., 2s. 8d. Trade prices in bottles: 1-lb. bottles, 8s. 6d. each; 8-oz. bottles, 4s. 6d. each; 4-oz. bottles, 2s. 8d. each; 1-oz. bottles, 1s. 1d. each, with retail selling prices 50 per cent. additional. **GOLD CHLORIDE.**—15-grain tubes, 53s. per doz. **MAGNESIUM POWDER.**—11s. 9d. per lb. **PARAMIDOPHENOL HYDROCHLORIDE.**—9s. per lb., bottles free. **POTASSIUM METABISULPHITE.**—One cwt., 1s. 3d.; 28 lb., 1s. 6d.; 14 lb., 1s. 7d.; 7 lb., 1s. 9d.; 1 lb., 2s.; 16-oz. bottles, 2s. 6d.; 8-oz. bottles, 1s. 6d. each; 4-oz. bottles, 1s. each; 1-oz. bottles, 8d. each. **PYROGALLIC ACID, CRYST.**—1 cwt. and over, 9s.; 56 lb., 9s. 3d.; 28 lb., 9s. 6d.; 14 lb., 10s. 6d.; 7 lb., 11s.; less than 7 lb., 11s. 6d. per lb. Bulk tins free, 1-lb. tins, 4d. extra and 1-lb. bottles, 6d. extra. **PYROGALLIC ACID, RESUB.**—1 lb., 15s.; 8 oz., 8s. 3d.; 4 oz., 4s. 9d. each; 1 oz., 22s. per doz. oz. **SODIUM SULPHIDE (PURE).**—7 lb., 1s. 9d.; 1 lb., 2s. per lb., bottles free. **SODIUM SULPHITE RECRYST.**—One cwt., 24s. 6d. per cwt.; 56 lb. for 13s. 3d.; 28 lb. for 72. **METOL.**—The prices were recently advanced by 1s. per lb., and are now: 1 cwt., 12s.; 56 lb., 12s. 3d.; 28 lb., 12s. 6d. per lb., all net; 14 lb., 13s.; 7 lb., 13s. 9d.; 3 lb., 14s. 6d.; under 3 lb., 15s. per lb., all 2½ per cent. monthly account. Bulk tins free, 1-lb. bottles sixpence per lb. extra. Retail quantities, 16 oz., 15s. 6d.; 8 oz., 8s. 6d.; 4 oz., 4s. 6d.; 1 oz., 1s. 11d. It is a condition of sale by the manufacturers that material shall not be re-sold at prices lower than manufacturers' schedules ruling on date re-sale is made.

QUININE.—Quotations for sulphate are now at 59.85 American dollars per 100 oz., f.o.b. Java. The sterling quotation for sulphate, at current exchange rate, is now £14 17s. 5d. per 100 oz., f.o.b. Java.

RESORCIN.—Makers' prices are unchanged. Not less than 7 lb., 7s. 3d. 1 lb.; not less than 14 lb., 7s.; not less than 56 lb., 6s. 10d.; not less than 1 cwt., 6s. 9d. Dealers' prices for any spot material available would be about 8s. 6d. to 9s. per lb.

SACCHARIN.—Duty-paid Convention price for 550 material continues 98s. 4d. per lb. Neither wholesale nor retail prices are under Government control.

SALICYLIC ACID (B.P.).—Makers' scales of prices as follows:—

In containers of	1 lb.	2 lb.	4 lb.	7 lb.	14 lb.	28 lb.
Under 4 lb.	s. d. 2 7½	s. d. 2 6	s. d. —	s. d. —	s. d. —	s. d. —
4 lb. and under 7 lb.	2 0½	2 5	2 4½	—	—	—
7 lb. and under 14 lb.	2 5½	2 4	2 3½	2 3½	—	—
14 lb. and under 28 lb.	2 4½	2 3	2 2½	2 2½	2 2	—
28 lb. and under 1 cwt.	2 3½	2 2	2 1½	2 1½	2 1	2 0
1 cwt. and under 5 cwt.	1 11½	1 10	1 9½	1 9½	1 9	1 8
5 cwt. and under 1 ton	1 11	1 9½	1 9½	1 8½	1 8½	1 8
1 ton	1 10	1 8½	1 8½	1 7½	1 7½	1 7

* 8 × 14 lb. and upwards, in one delivery, ½d. lb. less.

Prices include parcels or collapsible cartons; other packages charged extra. Can be assayed with sodium salicylate. Prices are quoted subject to undertaking on part of buyer not to re-sell any quantities at prices or terms below scale current at time re-sale is made.

SALOL.—Market continues firm, with values at about 6s. 9d. to 7s. per lb. according to quantity.

SANTONIN.—Convention prices are unchanged as follows: 15 kilo and over, £35 10s.; not less than 10 kilo, £36 5s.; not less than 5 kilo, £37; less than 5 kilo, £38 per kilo, delivered free in the U.K.; 1-kilo tins free.

STRYCHNINE SALTS.—British makers' prices per oz. are as follows:—

	Under 100 oz.	100 oz. and under 500 oz.	500 oz. and over		Under 100 oz.	100 oz. and under 500 oz.	500 oz. and over
Alkaloid, crystalline	s. d. 2 8	s. d. 2 7	s. d. 2 6	Nitrate, powder	s. d. 2 5½	s. d. 2 4½	s. d. 2 4
" precipitated	2 8	2 7	2 6	" " No. 2	1 11	1 10	1 10
Acetate	2 10½	2 9½	2 8½	Phosphate	3 3½	3 2½	3 2
Arsenate	2 9	2 8	2 7	Sulphate, neutral, crystalline	2 2	2 1	2 1
Arsenite	2 10½	2 9½	2 8½	Sulphate, neutral, powder	2 2	2 1	2 1
Bisulphate	2 0½	1 11½	1 10½	Sulphate, neutral, powder No. 2	1 9	1 8	1 8
Hydrochloride	2 5½	2 4½	2 3½				
Hypophosphite	5 2	5 1	5 0				
Nitrate, crystalline	2 5½	2 4½	2 3½				

25-oz. containers and outer cases free; smaller packages extra. Contracts may be booked for quantities of 100 oz. and over, with rise-and-fall clause, for a period of six months. Terms net thirty days. Wholesale distributors' prices for small quantities would be dearer.

SULPHANILAMIDE.—Market is steady as quoted. Values are at from 10s. 3 to 11s. 6d. per lb., as to quantity.

SULPHONAL.—Business is on a moderate scale. Dealers' prices are firm at about 34s. to 35s. per lb., according to quantity.

TARTARIC ACID (B.P. CRYSTALS).—Makers advise that their quotations continue nominal at 2s. 0½d. per lb., less 5 per cent. discount, with supply reserved for regular consumer customers. Any foreign material would worth about 3s. 2d. to 3s. 3d. per lb.

VANILLIN.—Makers' prices continue unchanged: Ex clove oil or guaiac five cwt., 14s. 6d. per lb.; one cwt., 14s. 7½d.; 56 lb., 14s. 9d.; less than 56 lb., 15s., carriage paid in the United Kingdom.

Crude Drugs, etc.

The general tone of these markets is fully steady, although business has been on the quiet side during the week. A number of the less important products continue in limited supply, but there is no shortage of the principal commodities.

ACONITE ROOT.—Any spot root available would be worth about 140s. 1 cwt., ex store.

AGAR.—Spot business continues along normal lines, with values fully maintained. Kobe No. 1, about 8s. 3d. per lb.; Kobe No. 2, about 8s.; a Yokohama No. 1, about 7s. 10½d. per lb., ex store, duty paid. Some divers parcels are reported to have been sold at equivalent prices. No shipment off from the source.

ALOES.—Curaçao has been in fairly good demand. There appears to be little left on spot and cables have failed to obtain offers from source. The last parcel obtained from New York was 280s. per cwt., c.i.f. Spot values are well maintained at about 280s. to 310s. per cwt., ex store, according to quantity. Cables steady but in quiet demand; spot, 57s. 6d. to 60s. per cwt. Zanzibar, leaves would be worth about 90s. per cwt., ex store, if available.

ANTIMONY.—Market quiet and steady. English 99 per cent., £90 per 100 delivered; foreign regulus, £90 to £93 per ton, duty paid; Chinese regulus, £90 to £92 per ton, ex warehouse London.

BALSAMS.—*Tolu* continues in short supply and is quoted at 9s. 6d. per Canada is valued at about 5s. 6d. per lb., and *Copaiba*, Para, about 3s. 6d. 3s. 9d. *Puru* is worth about 7s. 9d. per lb.

BELLADONNA.—Both root and leaves are quoted nominal on spot. Odd small lots are likely to be available.

BENZON.—A quiet spot demand is reported for Sumatra at £5 10s. 6d. 15s. per cwt., according to quality.

BISMUTH METAL.—Quoted unchanged on the week at one dollar 25 cents per lb., ex store.

BUCHU.—Market continues quiet, but values are quite firmly maintained. Spot, about 2s. 9d. to 3s. per lb., ex store, according to quality and quantity.

CAMPHOR.—Some spot business is reported in Japanese. Slabs would be worth about 5s. 3d. per lb., and tablets, if available, about 6s. per lb.; there appears to be no powder on spot. Continental synthetic powder, 5s. 3d.; tablets, 5s. 6d. per lb., ex store. English refined, quoted as follows: Flowers, 1 lb. cwt., 5s. 9d.; 2 lb., 5s. 10d.; less than 2 lb., 5s. 11d. per lb. Transparent tablets, 4-oz., one cwt., 6s. 3d.; 2 lb., 6s. 4d.; less than 2 lb., 6s. 5d. per lb.

CANTHARIDES.—Market remains steady; not much available. Chinese, spot, about 4s. 3d. to 4s. 6d. per lb., duty paid; shipment, about 4s. 3d. per lb., c.i.f. Russian, spot, about 6s. per lb., if available.

CARDAMOMS.—Only a small business passing at the previously quoted values: Ceylon, spot, between 3s. 6d. and 5s. per lb., according to quality; Bombay seed, about 4s. 6d. per lb.; Mangalore seed, about 4s. 3d.; Aleppy greens, about 3s. 2d. per lb.

CASCARA SAGRADA.—A fair routine spot trade has been passing this week. Quoted values are at about 87s. 6d. to 97s. 6d. per cwt., according to age of bark. The last shipment offer from the Coast was at 65s. per cwt., c.i.f.

CASCARILLA.—Good silvery quill is quoted by dealers at about 1s. 6d. per lb.; siftings at about 1s. 4d. per lb.

CHAMOMILES.—Supplies are short and would be worth about 400s. per cwt. or medium quality, if available.

CHILLIES.—Mombasa on spot quoted at about 125s. per cwt. Zanzibar, a.q., 115s. Sierra Leone, 112s. 6d. per cwt.

CLOVES.—Again quoted dearer: Spot, Zanzibar, advanced to 9½d.; shipment, September–October, 9d. per lb., nominal. Madagascar, dearer at 8½d. per lb., in bond.

COCOA BUTTER.—Prime English on spot is now offering at 1s. 1½d. per lb., duty paid, ex wharf; foreign, quoted dearer at 1s. 1½d. per lb., duty paid, ex store.

COCONUT (DESICCATED).—The spot value of fine shows a further advance to 1s. 6d. per cwt., and medium to 39s. 6d. per cwt., sellers. The market continues firm.

COLOCYNTH.—Not much business is moving in this market; dealers are noting at about 1s. 6d. to 1s. 9d. per lb., according to quality.

DANDELION ROOT.—Stocks in first hands are cleared, and no quotations are obtainable. The autumn-dug domestic crop will be available towards the end of the present month.

ERGOT.—The spot value of Spanish-Portuguese continues at about 9s. per lb., ex store, although it may be possible to secure some near-at-hand parcels at a slightly lower figure. New-crop, for prompt shipment, is quoted easier at about 6s. 3d. per lb., c.i.f.

GAMBOGE.—Some inquiry is reported. Good-quality Siam pipe is valued between £25 and £26 per cwt., duty paid.

GENTIAN.—About 180s. per cwt. would be the value of any available supplies of root. The market appears to be practically bare.

GINGER.—West African is now quoted dearer on spot at 38s. per cwt., buyers, and 40s. per cwt., sellers. Jamaican, spot, small-medium, unchanged at 52s. 6d.; bold, in barrels, 85s. per cwt., ex store. Cochín, unwashed, 48s. per cwt., ex store.

GUM ACACIA.—The spot value of Kordofan cleaned sorts continues at about 7s. 6d. per cwt.; bleached is quoted at from 125s. to 150s. per cwt., according to quality; shipment, new-crop, 45s., c.i.f., nominal.

HENNA.—Dealers are now quoting leaves at prices ranging between 62s. 6d. and 85s. per cwt., ex store, for any material available. Supplies of this product are reported to be practically exhausted.

HONEY.—Spot values well maintained; business quiet: Jamaican, spot, between 90s. and 105s. per cwt., nominal. Stocks of all descriptions limited.

HYDRASTIS.—Demand small, market steady. Good-test root is quoted on spot at about 22s. 6d. per lb.; untested root would be valued at about 19s. 19s. 6d. per lb.

IPECACUANHA.—The small supply of Matto Grosso is held for 25s. to 26s. per lb., ex store; shipment, September, offered at 21s. per lb., c.i.f. Minas is selling slowly at between 11s. 6d. and 12s. 6d., ex store, according to test; shipment, September–October, business reported done at 7s. 6d. per lb., c.i.f. Ext. IPECAC. L19. continues to be quoted by makers at the lower price recorded last week, i.e. 30s. per lb. for minimum lots of twelve winchesters.

LAVENDER FLOWERS.—The spot value of any good blue flowers available could be in the region of 2s. per lb.

LOBELIA HERB.—Dealers are quoting about 9½d. to 10d. per lb., ex store, or spot supplies.

MENTHOL.—An ordinary routine trade continues. Japanese is quoted at between 21s. and 22s. per lb., ex store. Rather more inquiry reported for the Chinese variety; spot is at about 15s. 9d. to 16s. 3d. per lb., ex store, as to bond; shipment, September–October, 14s. 3d. per lb., c.i.f.

MERCURY.—Market steady; quotations unchanged. The price quoted, ex warehouse, London, per bottle of 34.5 kilos, is £54 10s., without engagement and subject to confirmation.

NUTMEGS.—Market firm, with values of West Indian unchanged; spot, 9s. 1s.; 90's, 8d.; wormy and broken, 6½d. per lb.

ORANGE PEEL.—Some thin-cut is reported available at between 3s. and 6d. per lb., ex store. Bitter quarters would be worth about 1s. 10d. per lb., ex store. Supplies of this product are running low.

PEPPER.—Market firm, with values of most descriptions level on the week. Uponong, spot, in bond, steady at 3½d. per lb.; shipment, September–October, 4½d., c.i.f., nominal. Tellicherry, spot, 4½d.; shipment, September–October, 5s. per cwt., c.i.f. Aleppy, spot, 4½d.; shipment, September–October, 34s. per cwt., c.i.f. White Muntok, spot, duty-paid, a shade easier at 5½d.; in bond, 4d., sellers; shipment, September–October, 4½d. per lb., c.i.f., nominal.

PIMENTO.—Spot quotations continue at last week's figure of 11½d. per lb., sellers; shipment, new-crop, September–October, quoted dearer at 85s. per cwt., c.i.f.

PYRETHRUM.—Dealers are now quoting at about 180s. to 190s. per cwt., ex store.

QUILLAIA BARK.—Spot supplies would be worth approximately 85s. per cwt., ex store.

RHUBARB.—Good-quality rough-round is in fair demand; values are at between 4s. 10½d. and 5s. 3d. per lb., duty paid, according to quantity. Shensi, round and flat, quoted at about 7s. 9d. per lb., and pickings at about 5s. 9d. per lb.

RUBBER.—Dull, with values slightly easier: Standard ribbed smoked sheet, spot, 12½d.; September, 12½d.; October, 12½d.; January–March, 12½d.; April–June, 11½d. per lb.

SENEGA.—Market firmer, with spot quotations at about 3s. 6d. to 3s. 7d. per lb. September shipment is quoted at about 3s. 4½d. per lb., c.i.f.

SENNA.—Market firm at former quotations; not much business passing. Best pale hand-picked Tinnevely pods quoted at 10½d. per lb., with darker grades at between 6½d. and 7½d.; f.a.q., 5½d. per lb. for leaves, about 8½d. for No. 1, 5½d. for No. 2, and 4½d. for No. 3. Hand-picked Alexandrian continue in short supply and values are nominal.

SHELLAC.—Standard TN orange nominal on the spot at 80s. per cwt.; pure button, 102s. 6d.; fine orange, 105s. to 150s. per cwt.

TAMARINDS.—Dealers are quoting West Indian at approximately 38s. per cwt., ex store.

TRAGACANTH.—A limited trade in small quantities, with values mostly unchanged on the week. Finest selected white ribbon, £90; No. 1, white, £85; No. 2, white, £65; No. 3, white, £50; pale leaf, £30; amber leaf, £22; red leaf, from £10 10s.; woody and hoggy, from £5. Prices are per cwt., ex store.

WAXES.—**BEES'.**—Market firm, business quiet. Spot, from 167s. 6d.; in bond, 155s.; shipment, Dar-es-Salaam, 155s. per cwt., c.i.f.; Japanese, first three brands, spot, 120s., duty paid; 110s. in bond; shipment, 110s., c.i.f. **CARNAUBA.**—Fatty, grey, 350s.; chalky grey, spot, 330s.; Primeira, spot, 450s.

Essential and Expressed Oils, etc.

REPORTS indicate a quiet week's business, with values generally well maintained. Rather more business is reported in anise (star). Bois de rose is firm, with supplies limited. There has been a good demand for Japanese peppermint; American natural oil is steady. Vetivert is quoted slightly dearer.

ALMOND.—Market steady; moderate business. Expressed, about 3s. 8d. to 3s. 11d. per lb., in cwt. lots; smaller quantities, up to about 4s. 3d. per lb., ex store. Genuine French bitter is quoted at about 14s. 6d. to 15s. 6d. per lb., ex store.

ANISE.—Rather more business reported; values fully steady. Spot, tins in cases, about 4s. 7½d.; drums, about 4s. 6d. per lb., ex store. No shipment offers from origin.

AVOCADO PEAR.—Market continues fully steady; quotations unchanged. Spot is worth about 55s. to 57s. per gall., delivered, with smaller quantities at higher prices.

BAY.—Market quiet, but prices well maintained. Spot, about 5s. 6d. to 6s. per lb., ex store, according to quality.

BERGAMOT.—Spot values continue nominal, and prices would have to be negotiated between buyer and seller. British makers are offering artificial products at attractive prices.

BOIS DE ROSE.—Market firm; spot supplies limited. Spot, between 10s. 6d. and 11s. per lb. Shipment, about 9s. to 9s. 3d. per lb., c.i.f., in drums.

CASSIA.—Values firmly maintained, demand quiet. Spot, if available, would be worth about 6s. 6d. to 6s. 9d. per lb. No shipment offers.

CITRONELLA.—The Ceylon oil is in fair demand and values are steady. Ceylon, spot, 2s. 4d. to 2s. 6d. per lb., in drums; small quantities, up to 3s. per lb.; shipment, about 1s. 6½d. per lb. Java, spot, from 2s. 6d. to 3s. per lb.; shipment, about 1s. 9d. per lb., c.i.f.

CLOVE.—Madagascar continues steady at about 5s. 6d. upwards per lb., in drums, if available. English, quoted at from 6s. 9d. to 7s. 3d. per lb., as to quantity.

EUCALYPTUS.—Market dull, but values fully maintained. 70 to 75 per cent. oil continues to be quoted at about 4s. to 4s. 6d. per lb., according to holder; shipment prices are nominal at about 3s. per lb., c.i.f. Fair supplies are due to come forward.

GERANIUM.—Both Bourbon and Algerian oils are now quoted on spot at in the region of 35s. to 40s. per lb., for any good-quality oil available. There are no shipment offers.

GRAPEFRUIT.—Genuine Californian oil would be worth about 12s. 6d. per lb. Genuine Florida is quoted at in the region of 11s. 6d. per lb.

LEMON.—No quotations are available for this oil, and values of hand-pressed would have to be negotiated. Californian distilled is quoted at about 10s. per lb., nominal. There are no shipment prices available for cold-pressed. British makers are offering artificial substitutes at attractive prices.

LEMONGRASS.—Market quiet, with values unchanged. The value of spot material is now at about 4s. to 4s. 6d. per lb.; shipment, up to about 3s. per lb., c.i.f.

LIME.—The spot value of genuine West Indian is now about 30s. per lb., with other qualities at lower prices.

LINSEED.—The controlled price for large bulk quantities of crude, naked ex works, is unchanged at the recent reduction to £44 per ton. Distributors' prices for ordinary quantities of crude or boiled, packed and carriage paid, would be at higher figures.

NEROLI.—Approximately 80s. per oz. would be wanted for any supplies of pure French oil. British makers are offering artificial substitutes at attractive prices.

OLIVE.—The Ministry of Food controlled price paid by importers for large bulk quantities in 50-gall. drums is unchanged. Distributors' prices for a few gallons, packed in gallon tins, carriage paid, now range from 12s. 6d. to 13s. 6d. per gall., according to quantity.

ORANGE.—Business has been on a moderate scale, with spot prices for good oil well maintained. French Guinea oil, about 6s. to 6s. 6d. per lb., according to quantity. Some Rhodesian oil is reported available at about 8s. 3d. per lb. Californian is quoted in sterling at 4s. 10d. per lb., in small drums, ex store, duty paid, limited supplies only being available. Shipment can be effected by transit overland to New York at an extra charge of five cents per lb.

OTTO OF ROSE.—Bulgarian on spot would be worth about 60s. to 70s. per oz.

PALMAROSA.—Market firm; quotations unchanged. Spot, approximately 12s. 6d. per lb., ex store; shipment is now up to about 10s. 9d. per lb., c.i.f.

PEPPERMINT.—A good demand has been experienced for the Japanese oil. Spot is valued at about 9s. 6d. per lb., with little available. Chinese, spot, about 7s. per lb. Several parcels afloat are quoted at 6s. 6d. per lb., c.i.f.; shipment, September–October, 6s. per lb., c.i.f. American natural oil, steady at 14s. 3d., in drums, and 14s. 7d. in tins in cases, c.i.f. Spot, steady at about 16s. per lb., ex store.

PETITGRAIN.—The value on spot is well maintained at about 11s. 6d. to 12s. 6d. per lb., nominal. Shipment offers are extremely difficult to obtain.

ROSEMARY.—About 5s. 6d. per lb. would represent the current spot value for Spanish oil; most offers for shipment are now in the region of 4s. 9d. per lb., c.i.f.

SANDALWOOD.—Genuine East Indian Mysore, in one-case lots, 19s. per lb. East Indian, produced outside the province of Mysore, 18s. per lb. for bulk quantities. English-made West Indian, 15s. per lb.; Australian, one-case lots, 16s., and five-cwt. lots, 15s. 6d. per lb.

SPIKE.—Good quality Spanish oil is now quoted at between 11s. and 12s. per lb., ex store; shipment, approximately 10s. 6d. per lb., c.i.f.

VETIVER.—Bourbon oil is now quoted on spot at about 40s. per lb., and Java at about 35s. per lb., ex store.

WORMSEED.—Market steady; values unchanged. Spot is worth approximately 24s. 6d. per lb.; shipment, in the region of 23s. per lb., e.i.f.

COMMERCIAL NOTES

Philippine Islands Derris Root Exports.—During 1939 exports of derris root from the Philippine Islands totalled 145,028 kilos, valued at 53,013 pesos, compared with 153,373 kilos, valued at 10,591 pesos, during the preceding year. In 1939 the whole of the exports were taken by U.S.A. and France, whereas in 1938 a large proportion was sent to Germany.

Pyrethrum from the Belgian Congo.—It is reported from the Belgian Congo that efforts are being made to increase production of pyrethrum flowers with a view to increasing export business. It is estimated that the 1940 crop will amount to about 500 metric tons.

U.S.A. Exports of Toilet Products.—Details of United States exports of toilet products to the Near and Far East are given below (figures are in dollars):—

Destination	1937	1938	1939	Destination	1937	1938	1939
Aden	710	474	561	Iraq	9,125	9,301	9,834
Saudi Arabia, ..				Japan	108,688	5,977	736
Yemen, etc. ..	944	1,198	1,381	Kwantung ..	20,062	2,226	135
British India ..	725,256	717,095	745,959	Palestine ..	22,257	17,659	26,954
British Malaya ..	174,375	182,239	240,634	Iran	10	1,558	633
Ceylon	56,680	64,539	51,243	Philippine Islands	849,150	772,471	901,318
China	89,538	52,194	48,011	Siam	28,072	31,465	35,070
Burma	(1)	77,255	103,421	Syria	19,098	27,043	23,625
Dutch Indies ..	120,705	135,000	199,798	Turkey	4,555	10,111	10,071
French Indo-China	1,129	5,420	1,227	Other Asia ..	7,066	8,074	6,334
Hong Kong ..	124,124	152,278	111,268				

Canadian Cod Liver Oil Production.—In order to ensure national self-sufficiency in medicinal-quality cod liver oil, steps are being taken in the Maritime Provinces of Canada to increase annual output to about 200,000 gallons (according to American sources). At least twelve new cod liver oil processing plants will be established during the next season.

United States Ergot Imports.—The following table shows imports of ergot into the United States during the past six years, together with countries of shipment (figures are in pounds):—

Country of Shipment	1934	1935	1936	1937	1938	1939
Germany	52,261	22,256	39,588	20,308	20,102	3,563
Portugal	17,707	30,541	131,990	164,216	81,188	66,302
Spain	42,176	123,054	26,082	39,110	15,887	3,840
Soviet Union ..	91,249	45,405	396	—	—	—
United Kingdom	5,383	22,735	11,451	50	13,776	6,720
Belgium	—	—	20,195	15,480	—	—
France	—	—	1,116	—	—	—
Hungary	—	—	1,086	—	1,984	4,925
Poland	—	1,570	3,681	—	11,211	11,412
Canada	—	2,200	—	—	—	—
Italy	—	—	2,279	—	—	—
Holland	6,839	—	—	—	—	—
Bulgaria	—	—	—	—	613	—
Rumania	—	—	—	—	—	1,008
Total	208,776	252,400	237,785	241,443	144,761	97,770

CORRESPONDENCE

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

Economies in Wrapping

SIR,—To wrap bottles of medicine and other goods is such a routine to the chemist that it is done automatically when serving customers with the new Order in force we shall have to remember that it must not be done so freely as in the past. When a customer purchases several articles and wants them wrapped up in one parcel another question arises. Would it be an infringement of the Order to wrap two or three tubes together? With the demand for metal, many "tins" now consist of a cardboard drum with metal lid and base; as these are used for packing powders of various kinds—dusting, talcum, etc.—it is doubtful whether there is any alternative. Dry drugs, such as Epsom salts and boric acid, must of necessity be packed in paper of some kind, but one wrapper should be enough. With many proprietaries the design of the outer is one of the main selling-points, and manufacturers would be unwilling to forgo this unless it was compulsory, but it is evident there could be a great saving of paper by discontinuing multiple wrappings.

Yours faithfully,

KNUCKLEDOWN (318).

Cups that Cheer

SIR,—I hope it is not too late to make one or two observations on this subject in continuation of your remarks (p. 33) and those of Xrayser (p. 40). In the first place, the writer in the "Manchester Guardian" did not get correctly the phrase used by William Cowper in his "The Winter Evening." The poet wrote:

"Let fall the curtains, wheel the sofa round,
And while the bubbling and loud hissing urn
Throws up a steamy column, and the cups
That cheer but not inebriate, wait on each,
So let us welcome peaceful evening in."

The misquotation of cup for cups is common, though the popular dictionaries of quotations are not to blame. In the second place, it is no new discovery that Bishop Berkeley had, prior to the publication of Cowper's poem, written of his wondrous panacea—the tar water—with "its luminous spirit" as being "proportioned to the human constitution as to warm without heating, to cheer but not inebriate . . . without that sinking of spirits which is the subsequent effect of all fermented cordials." In the third place, Dr. A. C. Fraser, in his edition of Berkeley's works, points out that the "coincidence" of the expression can hardly be accidental. Cowper was born in 1731 and "The Task," of which the "The Winter Evening" is a part, was published in 1785, when the poet was fifty-four. Berkeley's "Siris" was published in 1744, and immediately tar water became an object of immense, even heated, discussion. At this day it occupies a considerable space in the history of the curiosities of medicine. At the date of its publication Cowper was already a lad of intelligence, and throughout the succeeding years the literature discussing the merits of the therapeutic agent advocated by so renowned and learned a divine as Bishop Berkeley must have been well known to the poet, whose melancholy would almost certainly lead him to read books of that character.

Yours faithfully,

Knowle, Bristol. WILLIAM KIRKBY.

MISCELLANEOUS INQUIRIES

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Health Salts.—J. E. F. (14/8).—The following formulas will be suitable for your purpose:—

I			
Sodium bicarbonate ..	..	..	2 oz.
Tartaric acid .. ..	..	..	1½ oz.
Acid potassium tartrate ..	..	..	1½ oz.
Exsiccated sodium sulphate ..	..	..	1 oz.
Sugar .. ..	..	..	6 oz.
II			
Sodium bicarbonate ..	..	..	17 oz.
Tartaric acid .. ..	..	..	9 oz.
Citric acid .. ..	..	..	5 oz.
Exsiccated sodium sulphate ..	..	..	7½ oz.

Liquid Cream.—W. B. (23/8).—The following is a representative formula for the type of cream you have in mind:—

Triethanolamine stearate ..	..	..	4.0
Cetyl alcohol .. ..	..	..	1.0
Glycerin .. ..	..	..	10.0
Heavy mineral oil .. ..	..	..	5.0
Distilled water .. ..	..	..	79.5
Perfume .. ..	..	..	0.5

Melt the triethanolamine stearate and cetyl alcohol in the mineral oil. Heat the glycerin and water to the same temperature and slowly stir into the hot oil mixture. When cold, add the perfume. The consistency of this may be adjusted to suit any particular requirement by varying the strength of triethanolamine stearate.

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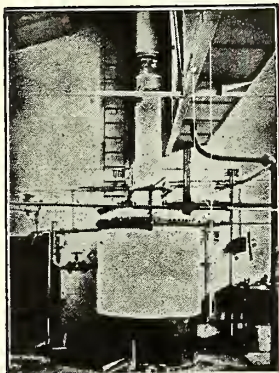
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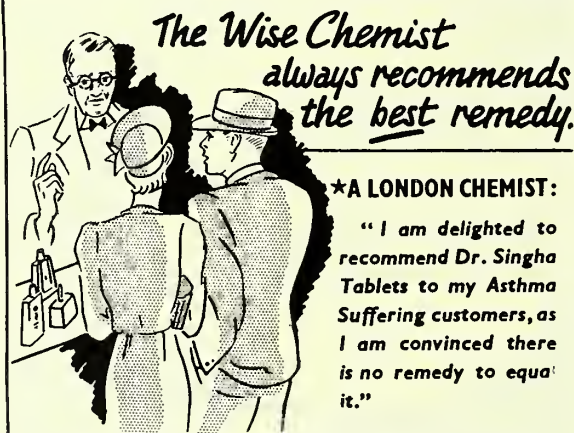
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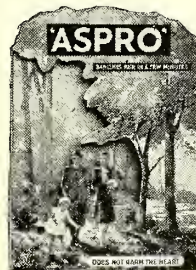
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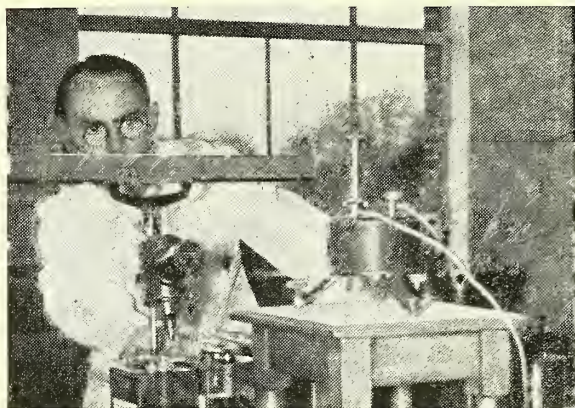
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Tell your customers that Benger's Food contains pancreatic digestive enzymes, and that when the hot milk is poured on to the cold mixture—according to directions for making—the resulting temperature releases these enzymes for their work. This is partial digestion of both Food and milk. Tell them that Benger's is the only Food in the world which does this. Tell them it only takes as long to make as half a pint of milk takes to boil.



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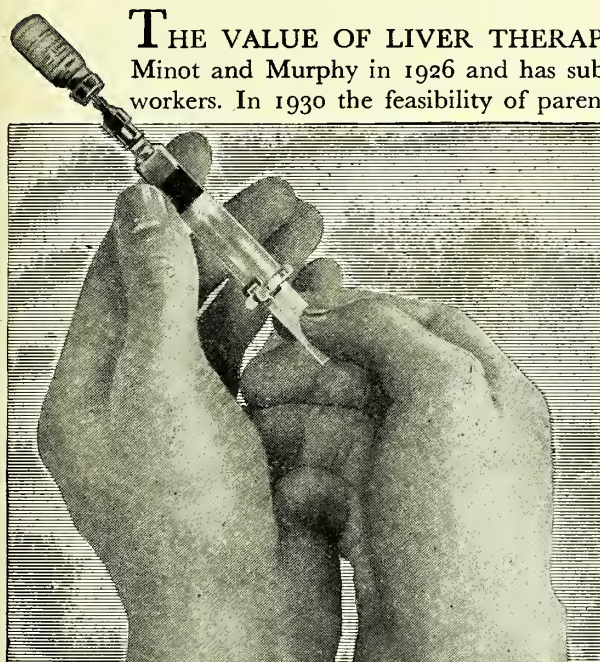
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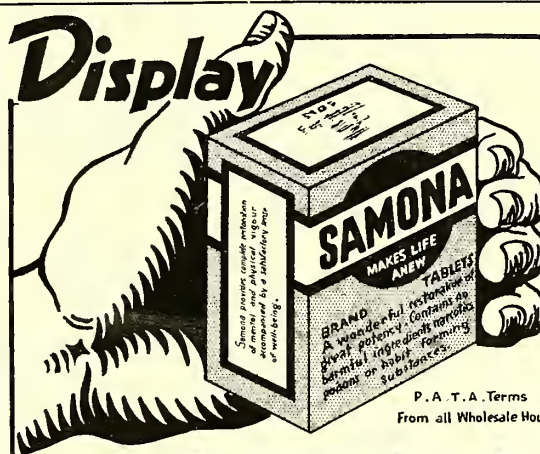
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The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

28 ESSEX STREET, LONDON, W.C. 2

SEPT. 7
1940

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SOUTH WALES. By order of Exors. Old established Business in good working class town, turnover average about £3,750, mostly cash, excellent stock about £2,650. Freehold Property situate in centre of town. Apply Rowland Rawlins & Co., 26 Gt. Tower Street, E.C.3.

WANTED

NATIONAL Cash Register in perfect condition. Give full particulars of condition and age. Shannon, 41 Beechfield Road, Blackpool.

REQUIRED, Glass Tubes 12/13 mm. x 61 mm. State quantity and price, to Ashe Laboratories, Ltd., 120/122 Victoria Street, S.W.1. (Vic. 5383).

PREMISES TO LET

COMMANDING Offices with living accommodation to let. Reasonable terms. Brixton Road. Suitable Patent Medicine Manufacturer. Apply Brixton 5121.

AGENCIES

NORTHERN IRELAND firm of Wholesale Chemists require additional agencies. Excellent opportunity for manufacturers desirous of obtaining efficient and speedy distribution of their products in Northern Ireland. First class references available. 336/3, Office of this Paper.

MAKERS of an attractive advertised Medicine and Toilet Preparation (not under restriction) and well introduced to Retail and Wholesale Trade all over British Isles, are desirous of appointing a firm to act as sole distributors in the British Isles. Apply 369/518, Office of this Paper.

SITUATIONS OPEN

RETAIL (HOME)

BROMLEY, Kent.—Unqualified Male Assistant required, Dispensing and Counter duties. Permanent appointment. Apply by letter to Retail Staff Dept., Timothy Whites & Taylors, Ltd., 70 Vauxhall Bridge Road, London, S.W.1.

CLIFTON, Bristol.—Unqualified Assistant (lady or gentleman) required for small good-class Pharmacy. Dispensing and Counter. Please state experience and salary required. Sowby, 36 Oakfield Road, Clifton, Bristol, 8.

LONDON Co-operative Society, Ltd., require the services of several experienced female unqualified Pharmacy Assistants in the Hammersmith, Highgate, Loughton and Stepney areas. Applications in first instance to Pharmacy Manager, 24 Martin Street, Stratford, London, E.15.

WORCESTER Park, Surrey.—Competent Young Lady Assistant required, with good knowledge of Drug and Toilet Trade, preferably able to dress windows. Salary £2 10s. per week. Write CDB/164, Office of this Paper.

ASSISTANT (Unqualified Male) required. State experience, salary required, age, etc. Langdale & Co., Chemists, 20 Queen Square, High Wycombe.

BRANCH Manager, qualified, for working-class district; must be quick and accurate Dispenser. State age, salary required and enclose photo if possible, to S. Paddon, M.P.S., 657 Attercliffe Road, Sheffield, 9.

PHARMACY Female Assistant Required, must have had Pharmaceutical and general shop experience. Trade Union conditions and rates of wages. Widows and single persons only considered. Apply in writing, stating age and experience, to the Staff Manager, Royal Arsenal Co-operative Society, Limited, 113 Powis Street, Woolwich, S.E.18. Endorse envelope "Pharmacy." Note: Canvassing of members of the General Committee or Officials will disqualify.

QUALIFIED Lady Assistant required for Central Drug Department. Salary £4 plus 2s. 6d. war bonus. Apply, stating age, experience, etc., to Lockhurst Lane Co-operative Society, Ltd., Holmsdale Road, Coventry.

TOILET Assistant. A vacancy will occur shortly for experienced Lady Assistant, Toilet and Fancy Counter, high class chemist, Cornwall, safe area. Applicants must have first class knowledge of all leading Toilets, including Arden. State salary required and photo if possible. 335/3, Office of this Paper.

WHOLESALE

YORKSHIRE.—Old-established Manufacturing Chemists require the services of an active Representative (resident in the West Riding) with some retail experience, to work and extend existing connexion. State territory, experience and nature of goods previously carried, age, remuneration required and when available, all in first letter, which will be treated in confidence. 369/519, Office of this Paper.

ASSISTANT required for Pricing Chemist's Stockbooks. Some previous experience necessary. Temporary. Central London. Apply "A," 369/516, Office of this Paper.

FEMALE Order Assemblers wanted. Must have knowledge of Patent Medicines, Sundries and Toilets. Apply in writing, giving full details of experience and salary required, to Messrs. The Regent Chemists, Ltd., 70 Vauxhall Bridge Road, London, S.W.1.

GENTLEMAN required for Medical Propaganda in the Midlands and North Wales, calling on doctors, hospitals, etc., for well-known pharmaceutical manufacturers. Public school or University education essential. Age 40-45. Reply, giving age, education, full details, to Box 305, c/o C. Mitchell & Co., Ltd., 1 Snow Hill, E.C.1.

INVOICE Clerk required for London Wholesale Druggists. Write, stating experience, etc. 365/381, Office of this Paper.

LABORATORY Assistant for London Manufacturing Chemists. Drugs and Cosmetics. Qualified preferred, but not essential. State salary required. 369/515, Office of this Paper.

REQUIRED, Assistant Traveller (outside military service) for London and suburbs, by well-established pastille and tablet house. Young, qualified man preferred. State age, experience, salary, etc., to 369/504, Office of this Paper.

REPRESENTATIVE wanted by well-known London House for their Midland and S. Wales ground. Vacancy occurs owing to war, and existing connexion will be handed over. Applicant must have had some Retail experience. Write, stating age, experience, territory covered, remuneration required, etc. Applications will not be considered unless full details given in first letter. 369/520, Office of this Paper.

SALES Representative required for disposal of general requirements to veterinary profession in South and South-west counties. Previous experience in this connexion preferred. Apply 368/496, Office of this Paper.

SUGAR Coater required for London House. Permanent position. Write, stating age, experience and salary required. 369/521, Office of this Paper.

TABLET Maker and Sugar Coater wanted, for London Wholesale Druggists. 365/382, Office of this Paper.

TRAVELLERS required to sell contraceptives to chemists in all counties; high commission paid. Apply, 333/3, Office of this Paper.

WHOLESALE or other organisation registered under Class 16 of the Limitation of Supplies Act with quota to spare required to handle portion of turnover of well-known preparations on remunerative terms. Write details of amount of quota available. 369/501, Office of this Paper.

YOUNG Pharmaceutical Chemist (male) of good education and sound technical training is required in the manufacturing department of a large and progressive Company near London. Applicants should have initiative and the ability to plan work effectively. Good Hospital experience would be an advantage. Apply, stating age, particulars of training and experience, to 369/514, Office of this Paper.

SITUATIONS WANTED

RETAIL (HOME)

CAPABLE, experienced, unqualified Woman (Hall) wants to join Chemist with a share in the business. 338/4, Office of this Paper.

LADY Dispenser (Hall) requires post in Lancaster or Morecambe district. Write McAleer, Poste Restante, Ingleton, via Carnforth.

LADY Pharmacist (28) requires position. Hospital and Managerial experience. London preferred. Free now. P.C.B. 346/32, Office of this Paper.

PHARMACIST (30), experienced Medical Representative, with sound connexion amongst doctors, chemists and hospitals in Yorkshire, requires similar position with Good House. Knowledge Therapeutics; car owner. Would consider representation with Proprietary House amongst Chemists, where initiative, industry and integrity can be used to fullest advantage. 339/6, Office of this Paper.

QUALIFIED Lady Dispenser seeks post. Experienced doctors and hospital; good testimonials. Mrs. Thompson, Priory, Thaxted, Essex. Phone 245.

QUALIFIED Man, aged 25, seeks a change. Six years' sound general experience; three years in charge. Used to Heavy Dispensing and Galenical making; expert photo-man; progressive and conscientious; asks moderate salary; will prove worth; interview anywhere. Chemist, 16 Craiglands, Findon Hill, Sacriston.

LOCUMS SEEKING ENGAGEMENTS

LOCUM or Assistant, unregistered, thoroughly experienced. Best references. Free September 14. Tall, good personality. Write "A," 5 Manor Road, Crayford, Kent.

QUALIFIED middle-aged experienced Locum. Highest possible recommendation; or permanency; Lancashire; District Manager or responsible position. Sept. 8 forward. Stansfield, 47 Cemetery Road, Southport.

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QUALIFIED (25), Scot. Manager or Assistant. First-class experience in Wholesale, Retail and Manufacturing. Excellent references; clean and accurate Dispenser; hard worker. North Counties preferred. Wholesale appointment considered. 338/3, Office of this Paper.

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Also 15,000 similar 2" x 1½", at 52s. 6d. per 1,000.

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WHOLESALE or other organisation registered under Class 9 of the Limitation of Supplies Act with quota to spare required to handle portion of turnover of well-known product on remunerative terms. Write details of amount of quota available. 369/522, Office of this Paper.

LATE NEWS

Trade with Iceland.—The Board of Trade has called the attention of United Kingdom exporters to the possibilities of the Icelandic market. Inquiries on this subject should be addressed to the Department of Overseas Trade, Great George Street, London, S.W.1.

A.R.P. for Ammonia Users.—A pamphlet entitled "Air Raid Precautions to be taken by users of Ammonia" has recently been issued by the Ministry of Home Security (H.M. Stationery Office, price 1d.). It includes recommendations for protection of cylinders, refrigerator tanks and personnel, and describes measures to be taken to deal with leaks.

British Standards Institution.—A standard specification for testing combustible material to provide a minimum standard of protection against incendiary bombs has been issued. Copies of the standard (BS 47) may be obtained from the British Standards Institution, 28 Victoria Street, London, S.W.1, price 4d. post free. A British standard test for laboratory porcelain (B.S. No. 914) has also been issued. Copies of both standards may be obtained from the British Standards Institution, 28 Victoria Street, London, S.W.1, price 2s. 3d. each, post free.

Representatives on Active Service.—Mr. D. A. Woolfe (for some time representative for West London and the Thames Valley for the R.A.F. Ltd.), and Mr. G. R. Summers (East Anglian representative) are now in the Royal Air Force; Mr. G. J. Griffiths (Manchester) has joined the Guards; Mr. Notman is in the Devon Regiment; Mr. F. L. Row (North Wales), who obtained his commission in the R.A.S.C., is now in Scotland; and Lieut. H. K. Craxton is now on duty in Edinburgh.

High-frequency Apparatus Prohibition Order.—The Home Secretary has made an Order forbidding the use or possession in the United Kingdom of high-frequency apparatus having a high-frequency output over ten watts, except under permit from the Postmaster-General. Permits may be issued to hospitals, clinics, or other institutions providing medical or surgical treatment; to manufacturers who require to use high-frequency apparatus; to makers of and dealers in such apparatus; and to persons in charge of laboratories used for purposes of research or instruction. The principal types of apparatus to which the Order applies are:—

- (i) diathermy and electro-medical apparatus using valves or spark gaps (frequently known as ultra short wave (or short or long wave) diathermy, surgical diathermy, or therapy apparatus);
- (ii) high-frequency furnaces;
- (iii) eddy-current heating apparatus as used by valve and electric-arc manufacturers;
- (iv) testing oscillators with a high-frequency output exceeding 10 watts.

The Order does not apply to the normal type of violet-ray equipment, ultra-ray, infra-red, or ultra-violet ray apparatus, or to medical induction coils. The Order came into force on September 2. Users in the permitted classes must apply for a permit to the Engineer-in-Chief, to Branch, General Post Office, Harrogate, Yorks, giving name, address, and particulars of the apparatus and purpose for which it is required. Apparatus may be used pending receipt of reply.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

A SPECIAL meeting of the Council of the Pharmaceutical Society of Great Britain was held at 17 Bloomsbury Square, London, W.C.1, on September 3. There were present the president (Mr. W. Deacon), in the chair, the vice-president (Mr. F. G. Wells), the treasurer (Mr. H. W. Wallis), Sir Malcolm Delevingne, Messrs. J. H. Franklin, W. S. Howells, Mrs. J. K. Irvine, Sir Walter Langdon-Brown, Messrs. J. F. McNeal, G. R. Knox Mawer, A. R. Melhuish, L. Moreton Parry, P. F. Rowsell, H. C. Shaw, H. Skinner, B. A. Williams, F. C. Wilson and J. C. Young. Had normal practice been followed the Council would not have met in September, but owing to the need to transact certain urgent business a special meeting was held. The usual committee meetings were not held.

Correspondence.—Among correspondence received was a letter suggesting the establishment of a fund for the purchase of one or more aircraft for the R.A.F. The Council instructed the secretary to reply that while they appreciated the suggestion they felt that in view of the appeals being made to pharmacists for various charitable objects in connexion with the war and of the opportunities for subscribing to local aircraft funds the Society was not called upon to associate itself officially with the launching of such an appeal to pharmacists.

New By-laws.—The new by-laws approved at the previous meeting of the Council were confirmed. The second and final confirmation will be moved at the next meeting of Council.

Purchase Tax Bill.—The secretary reported upon the later stages of this Bill and the effect of the representations made on behalf of pharmaceutical interests. Although these representations had not been successful a valuable concession had been obtained in that the list of drugs to be exempted would be published in draft, so that representations could be made in respect of them.

War-aid Service.—The Council received a report of a special committee appointed to consider the best methods of dealing with the problems of pharmacists who found themselves in difficulties owing to the war. The report contained a recommendation, which was adopted, for the establishment of a separate department of the Society under the name of "War-aid Service" to co-ordinate all forms of advice and assistance to such pharmacists; of a section of the Benevolent Fund to be called the "War-aid Fund," and of a committee to be called the "War-aid Committee" to supervise the service and appeal for donations, and to administer the war-aid fund. A fuller report of the matter will be published later.

Councillors' Visits to Branch Meetings.—The Council decided that in view of the liability of interruption of journeys owing to air-raid warnings and dislocation of transport, which might involve excessive delays in travelling, discretion should be exercised in granting requests for the services of members of Council to speak at branch meetings.

British Volunteer Ambulance Corps.—It was reported that the amount received for the pharmaceutical appeal for this Corps to date was £92.

Investment for War Purposes.—Upon the recommendation of the treasurer the Council authorised the investment of £40,000 of the unspent portion of the loan and the re-investment of the Society's holding of 4 per cent. Funding Stock in 2½ per cent. National War Bonds, 1945-47. The total investment amounts to some £78,000, and besides helping the national effort will strengthen the Society's financial position for dealing with future problems.

Return of the School to London.—The Council received a report of the decision of the special committee in accordance with the authority given them that the school of pharmacy should return to London for the ensuing session. Among other matters dealt with were the granting of seventeen diplomas to pharmaceutical chemists and the making of grants to certain branches.

BOVINE DISEASES.—Tuberculosis, contagious abortion and mastitis in dairy cows are discussed in a pamphlet issued by the Ministry of Agriculture and Fisheries ("Growmore" Leaflet No. 23), which covers the recognition, control and preventive treatment of the diseases. Copies may be obtained free on application to the Ministry at Hotel Lindum, St. Annes, Lytham St. Annes, Lancs.

AID-RAID PRECAUTIONS BULLETINS.—The second of the Air Raid Precautions Training Bulletins, which the Ministry of Home Security is issuing, is now available at H.M. Stationery Office, Kingsway, London, W.C.2 (price 6d.). These bulletins are issued for the benefit of instructors, and more particularly those in commercial and industrial establishments who have not the same opportunities of keeping in touch with the latest developments in A.R.P. matters as have local authorities' staffs.

STOCK EXCHANGE PRICES

£1 shares unless otherwise stated	Dec. 29 1939	July 30 1940	Aug. 30 1940
Allen & Hanburys, 7% Prefd. Ord.	s. d.	s. d.	s. d.
Amalgamated Dental Co., 8% Prefd. Ord.	22 3	15 0	11 3
Aspro, 5s.	11 3	8 6	8 9
Ayrton, Saunders & Co., 7½% Pref.	21 9	19 0	19 0
Beechams Pills, Deferred 2s. 6d.	8 1½	7 6	7 6
Benger's Food, Ord.	17 0	20 6	20 0
Benzol & By-Products, Cum. Particip. Pref.	20 6	12 6	13 9
Berger, Lewis, & Sons, Ord.	41 3	38 9	38 9
Blundell, Spence & Co.	8 6	8 9	8 9
Boots Pure Drug Co., Ord. 5s.	39 9	38 0	38 9
Boots Cash Chemists (S.), 6% "A" Prefd.	28 0	26 0	26 0
Borax Consolidated, Deferred Ord.	25 9	25 0	25 0
Bovril, Ord.	25 0	22 6	25 0
Deferred	23 6	21 9	21 0
British Industrial Plastics (formerly British Cyanides), Ord. 2s.	20 10½	18 0	18 0
British Drug Houses, The, Ord.	2 1½	1 7½	1 7½
British Glues & Chemicals, Ord. 4s.	21 9	20 3	21 0
British Oil & Cake Mills, Prefd. Ord.	6 3	4 3	5 0
British Oxygen Co., Ord.	39 0	32 3	32 0
British Photo Industries, 6% Cum. Pref.	71 3	53 9	58 9
Burt, Boulton & Hayward, Ord.	3 0	3 0	3 0
Bush, W. J., & Co., 5% Pref. £5	15 0	10 0	10 0
Callard, Stewart & Watt, Ord.	82 6	90 0	90 0
Cooper, McDougall & Robertson, Ord.	1 6	2 6	2 6
Crosfield, Joseph, & Sons, 6½% Pref.	20 6	20 0	20 0
Dubarry Perfumery, Ord. 1s.	24 6	22 6	22 6
Evans Sons Lescher & Webb, Ord. 6s. 8d.	2 0	0 9	1 0
" " " " " 6% Cum. Particip. Pref.	20 0	13 9	15 0
Field, J. C. & J., Ord.	2 6	3 3	2 6
Galloway, P. H., Ord. 2s.	5 0	4 7½	5 0
" " " " " 7½% Cum. Pref.	22 6	19 6	19 6
Genatosan, 1s. shares	2 6	1 7½	1 6
Gossage, William, 6½% Pref.	20 0	21 3	21 3
Greeff-Chemical Holdings, Cum. Pref. 10s.	5 1½	5 4½	3 9
" " " " " Ord. 5s.	25 6	22 6	22 0
Griffiths Hughes (Kruschen), Ord.	8 3	9 6	9 6
Grout & Co., Ord.	5 0	5 3	5 9
Hodders, Ord. 1s.	6 4½	6 3	7 0
Ilford, Ord.	13 0	13 0	9 10½
" " " " " 6% Pref.	0 7½	0 6	0 7½
Imperial Chemical Industries, 7% Pref.	22 3	24 6	25 0
" " " " " Ord.	21 9	23 0	22 6
International Sponge Importers, 6% Pref.	30 0	30 0	28 6
Knight, John, 25% Prefd. Ord.	30 4½	24 9	25 6
Laporte, B., & Co., Ltd., Ord.	5 0	5 0	5 0
Lever Bros., 7% Pref.	78 9	70 0	66 3
" " " " " 8% Pref.	60 0	47 6	47 0
" " " " " 20% Prefd. 5s.	25 0	23 0	23 9
Lewis & Burrows, Ord.	25 9	21 6	21 9
" " " " " 6% Pref.	15 6	11 3	12 0
Liebig's Extract of Meat, Ord. £5	20 0	9 9	9 9
Macleans, 6% Red. Pref.	18 9	15 6	15 6
Mellin's Food, 6% Pref.	£16½	£8½	£10
Nathan, J., & Co. (Glaxo), 7% Pref.	19 0	19 6	18 9
" " " " " 8% Prefd. 10s.	1 3	0 6	0 6
" " " " " Ord. 10s.	21 9	19 0	17 10½
Pears, A. & F., 5% Deb. £100	10 3	8 9	9 1½
Reckitt & Sons, Ord.	3 6	10 0	11 0
Sangers, Ord. 5s.	£97½	£99	£98½
Sanitas Co., The, 9% Pref.	96 3	77 6	85 0
Sanitas Trust, 10% Particip. Pref.	20 0	17 6	18 9
Smith, Stephen, & Co., Ord. 5s.	22 6	20 0	20 0
Spratt's Patent, Ord.	22 6	21 0	21 9
Stevenson & Howell, 6½% Cum. Pref.	8 3	5 6	6 6
United Glass Bottle Manufacturers, Ord.	43 6	32 0	29 0
Veno Drug Co., 8% Pref.	22 6	20 0	20 0
Virol, Ord.	51 3	43 6	43 9
" " " " " 7% Pref.	22 6	19 1½	21 3
Vitamins, Ltd., 1s. shares	25 0	25 0	25 0
White, A. J., Ltd., Ord. 10s.	23 6	20 9	21 9
White, Timothy, & Taylors, 7½% Pref.	4 3	2 6	3 0
Wright, Layman & Umney (1932), 7% Cum. Pref.	13 3	11 3	10 6
" " " " " Ord. 5s.	26 3	21 3	21 6
" " " " " Pref.	22 6	16 3	16 9
" " " " " Pref.	23 1½	17 6	17 6

NOTE.—The shares of J. Nathan & Co. (Glaxo), Ord., were formerly 1s.

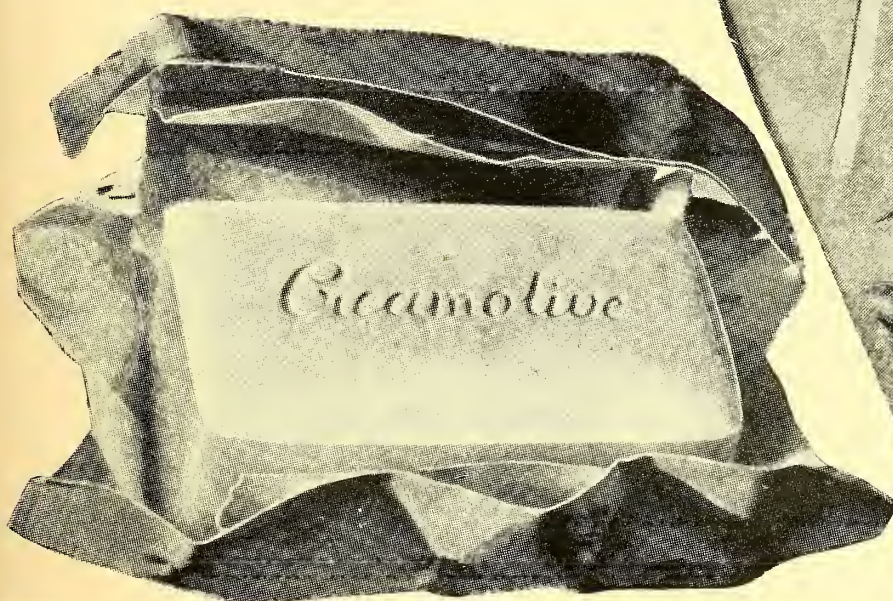
MEDICAL ABSTRACTS

Chemotherapeutic Action of Penicillin.—The value of Penicillin as a bacteriostatic mould substance—in controlling bacterial infection in laboratory animals is described by Chain, Florey and others in "Lancet" (August 24, p. 226). The growth-inhibiting action of the moulds on pathogenic micro-organisms has been known for some time, but little has been done to investigate the phenomenon. The present report is the result of a co-operative investigation on the chemical, pharmacological and chemotherapeutic properties of a substance produced by a mould and described in 1929 by Fleming. This substance inhibited the growth of staphylococci, streptococci, gonococci, meningococci and *C. diphtheriae*, but not of *B. coli*, *Haemophilus influenzae*, *Salmonella typhi*, *B. proteus* or *Vibrio cholerae*. He observed that injection into animals of broth containing the substance which was called penicillin was no more toxic than plain broth. The mould was believed to be closely related to *Penicillium notatum*. Methods have been devised for obtaining a considerable yield of penicillin and for a rapid assay of its inhibitory power. From the culture medium a bacterial powder has been obtained which is freely soluble in water. The substance and its solution are stable for considerable time and its anti-bacterial activity is very great. Apart from certain changes in the blood picture of laboratory animals, no effects have been observed on the blood pressure, heart beat and respiration of cats after intravenous injection of 40 mgm. of the substance. The preliminary tests have been made with an impure substance and such slight toxic effects have been noted may, it is suggested, be due in part at least to impurities. In view of this slight evidence of tissue toxicity, it is the more striking that the substance, in a dilution of one in several hundred thousand, inhibits *in vitro* the growth of many micro-organisms including anaerobes. Of those so far tested, the following are sensitive to the inhibiting action of the preparation made by the authors: *Clostridium welchii*, *Cl. septicum*, *Cl. oedematiens*, *C. diphtheriae*, *Streptococcus pyogenes*, *Streptococcus viridans* and staphylococci. It is stated that penicillin is not immediately bactericidal, but that it is able to interfere with multiplication. Therapeutic tests were carried out on mice infected with streptococci, staphylococci and *Cl. septicum*, and a general principle has been to keep up an inhibitory concentration of the substance in the tissues of the body throughout the treatment by subcutaneous injections. The authors conclude from their results that penicillin is active *in vivo* against at least three of the organisms which have been tested. It is hoped that the organism which has been inhibited *in vitro* and express a reasonable hope that all organisms which are inhibited in high dilution *in vitro* will be found to be dealt with *in vivo*.

Nicotinic Acid and Vincent's Disease.—The successful treatment of four cases of Vincent's disease by the oral administration of nicotinic acid is reported by King in "The Lancet," July 13, p. 32. It was thought that the gingivitis might be an early manifestation of pellagra which is not uncommon in Nyasaland and, therefore, might be associated with nicotinic acid. It was suggested that the Nyasaland disease associated with defective slow metabolism due to a deficiency of nicotinic acid (pellagra-preventing (P.P.) factor). Furthermore, a study of reports of pellagra in certain parts of the world reveals the almost invariable presence of glossitis and stomatitis. In all typical cases of pellagra, fusiform bacilli and *Spirochaeta Vincenti* are commonly found. Workers have emphasised the presence of glossitis and stomatitis not only in true pellagra but also in what they term "the pellagra state." They say that in temperate climates, the skin lesions of pellagra do not become apparent but that the deficiency of the P.P. factor shows itself by stomatitis, characteristic desquamation of the tongue and chronic diarrhoea. In the cases treated by King the present investigation, nicotinic acid was given in daily doses of 250 mgm. to three patients at 60 mgm. to the fourth, daily. The treatment was marked by the early response following administration of the drug. In all cases satisfactory evidence of its value being observed within eight hours. The curative effects of nicotinic acid in these cases of Vincent's disease suggest that deficiency intake or utilisation of nicotinic acid and allied substances might have contributed to the development of the disease. Study of the daily excretion of nicotinic acid in the urine was, therefore, begun. A single case of Vincent's angina showed an abnormally small amount of nicotinic acid excreted in the urine compared with that excreted by four people with healthy mouths. The discovery of the great value of nicotinic acid and its allied pyridine derivatives in the prevention and cure of pellagra in man arose from observations made on canine blacktongue and on pellagra of pig and monkeys. Reports of the successful treatment of pellagra in man by nicotinic acid and with nicotine amide have since been made by other investigators. The description of these cases of more or less severe Vincent's disease treated by similar means at once raises the question whether ulceration of the mouth and associated parts, accompanied by the presence of fusiform bacilli and spirochaetes may not also be related to deficiency of part of the vitamin B₂ complex.


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